

DENON

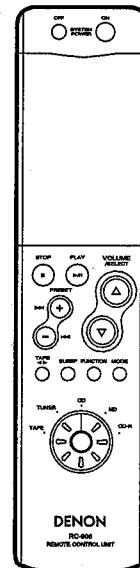
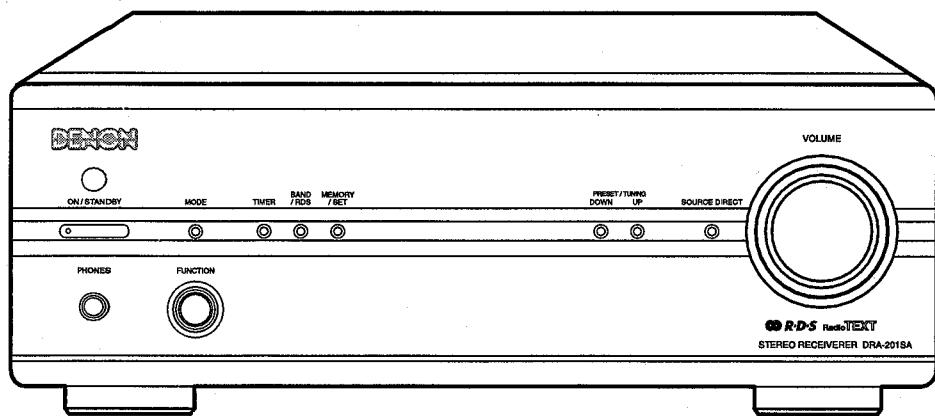
For Europe model

Hi-Fi AM-FM Stereo Receiver

SERVICE MANUAL

MODEL DRA-201SA

AM-FM STEREO RECEIVER



- Some illustrations using in this service manual are slightly different from the actual set.

DENON, Ltd.

16-11, YUSHIMA 3-CHOME, BUNKYOU-KU, TOKYO 113-0034 JAPAN
Telephone: 03 (3837) 5321

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 millamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

SPECIFICATIONS

• POWER AMPLIFIER SECTION

Rated Output Power:

4 Ω/ohms Load

50W + 50W

(DIN, 1 kHz, T.H.D. 0.7%)

Output terminals:

4 to 16 Ω/ohms

• PRE AMPLIFIER SECTION

Rated Output:

150 mV

(Recoil Terminal)

Input Sensitivity/Input Impedance:

PHONO:

2.5 mV/47 kΩ/ohms

CD, TUNER, DVD/AUX,

TAPE, MD, AUX-2:

100 mV/16 kΩ/ohms

RIAA Deviation:

PHONO:

20 Hz to 20 kHz ±0.5 dB

• TUNER SECTION

Reception frequency range:

FM: 87.50 MHz~108.00 MHz

AM: 522 kHz~1611 kHz

Practical sensitivity:

FM: 1.2 µV/75 Ω/ohms (12.8 dBf)

AM: 18 µV

FM stereo isolation:

40 dB (1 kHz)

FM S/N ratio:

Monaural: 77 dB Stereo: 71 dB

FM harmonic distortion:

Monaural: 0.3% Stereo: 0.4%

Timer functions:

Everyday timer (1 setting)

Once timer (1 setting)

Sleep timer (maximum 60 min.)

• OVERALL CHARACTERISTICS

SN Ratio (IHF A Network):

(input terminals short-circuited)

PHONO: 80 dB (at 5 mV input) (input terminals short-circuited)

Frequency Response:

Tone Control Adjustable Range:

BASS:

CD, TUNER, DVD/AUX,

TREBLE:

TAPE, MD, AUX-2: 102 dB (SOURCE DIRECT: ON)

LOUDNESS:

5 Hz to 100 kHz: +0, -3 dB (SOURCE DIRECT: ON)

100 Hz ±8 dB

10 kHz ±8 dB

100 Hz +8 dB

10 kHz +6 dB

• OTHERS

Power supply:

AC 230 V, 50 Hz

Power consumption:

110 W (IEC)

1 W MAX (Standby)

Dimensions:

250 (W) × 90 (H) × 371 (D) mm

Net Mass:

6.2 kg

• REMOTE CONTROL UNIT (RC-906)

Remote control system:

Infrared pulse system

Power supply:

3 V DC, Two size R03 ("AAA")

dry cell batteries

External dimensions:

48 (W) × 210 (H) × 29 (D) mm

Mass:

120 g

* Maximum dimensions include controls, jacks, and covers.

(W) = width, (H) = height, (D) = depth

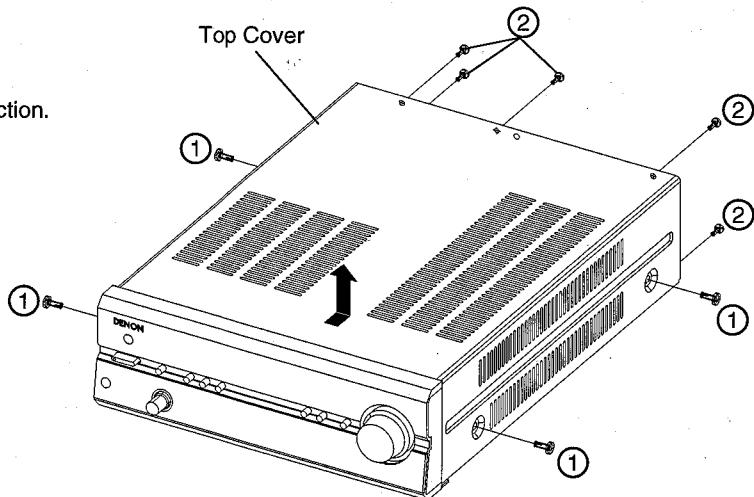
* For improvement purposes, specifications and functions are subject to change without advanced notice.

DISASSEMBLY

(Follow the procedure below in reverse order when reassembling)

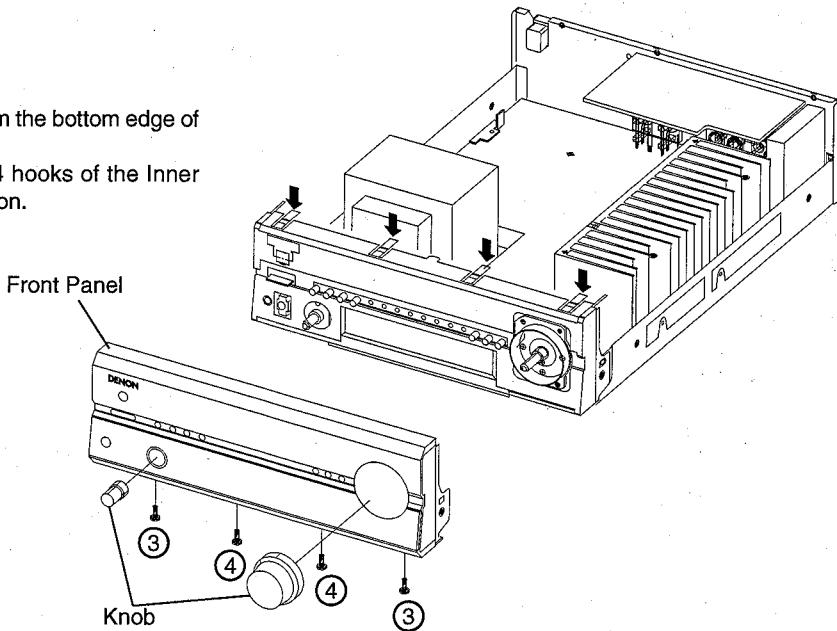
1. Top Cover

1. Remove 4 screws ① on both sides.
2. Remove 5 screws ② on the Rear Panel.
3. Detach the Cover as shown in the arrow direction.



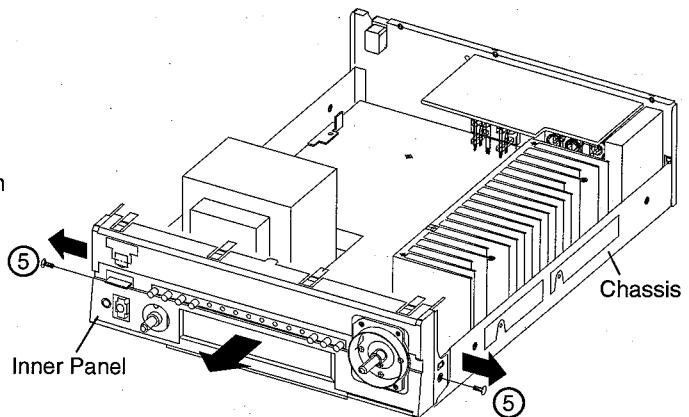
2. Front Panel

1. Pull out 2 Knobs.
2. Remove each 2 screws ③ and ④ from the bottom edge of the Front Panel.
3. To detach the Front Panel, release 4 hooks of the Inner Panel by pressing in the arrow direction.



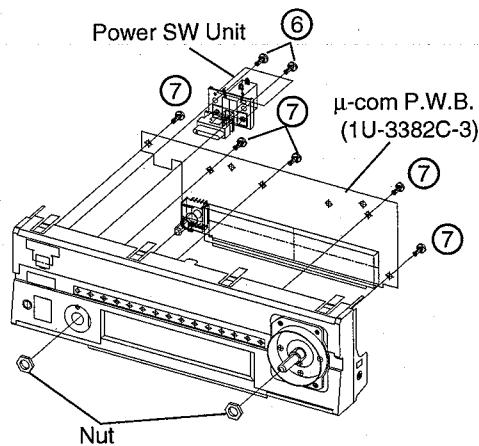
3. Inner Panel

1. Remove 2 screws ⑤ on both sides.
2. Widen both sides of the Inner Panel in the arrow direction to release from the hooks of the Chassis.



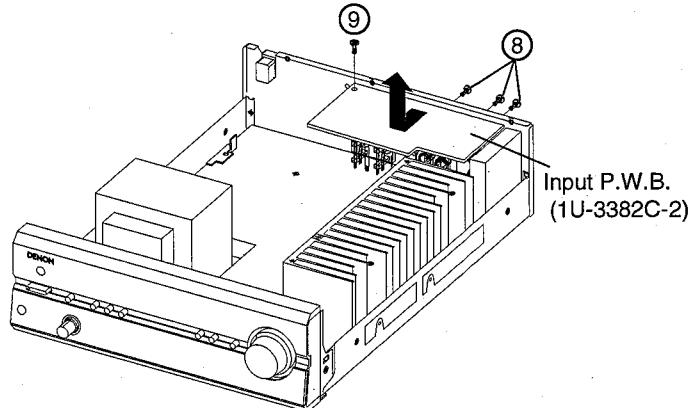
4. μ -com P.W.B. (1U-3382C-3)

1. Remove 2 screws ⑥ to detach the Power SW Unit.
2. Remove the Nut and 5 screws ⑦.



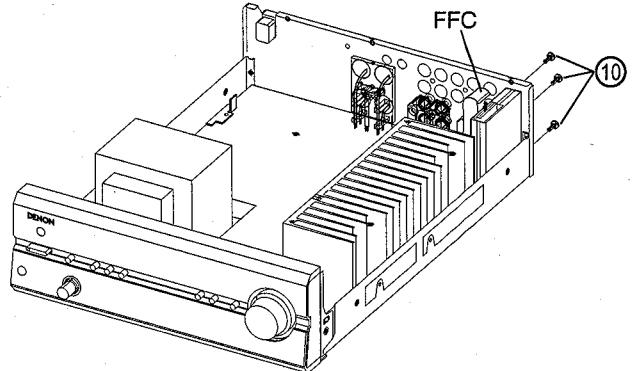
5. Input PWB (1U-3382C-2)

Remove 3 screws ⑧ and 1 screw ⑨.



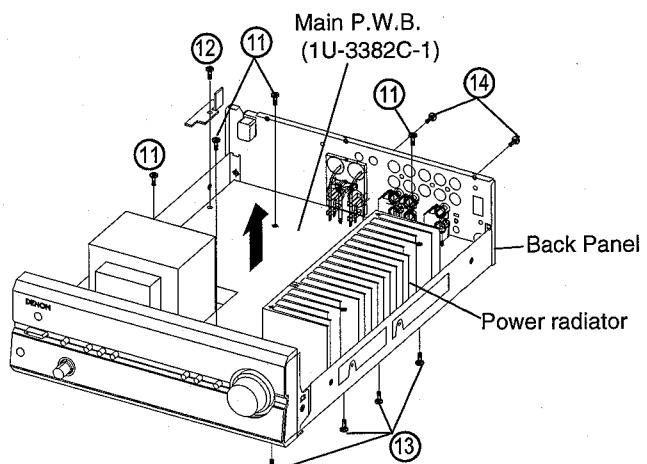
6. TUNER PACK

1. Disconnect the FFC coming out of the Main P.W.B.
2. Remove 3 screws ⑩.

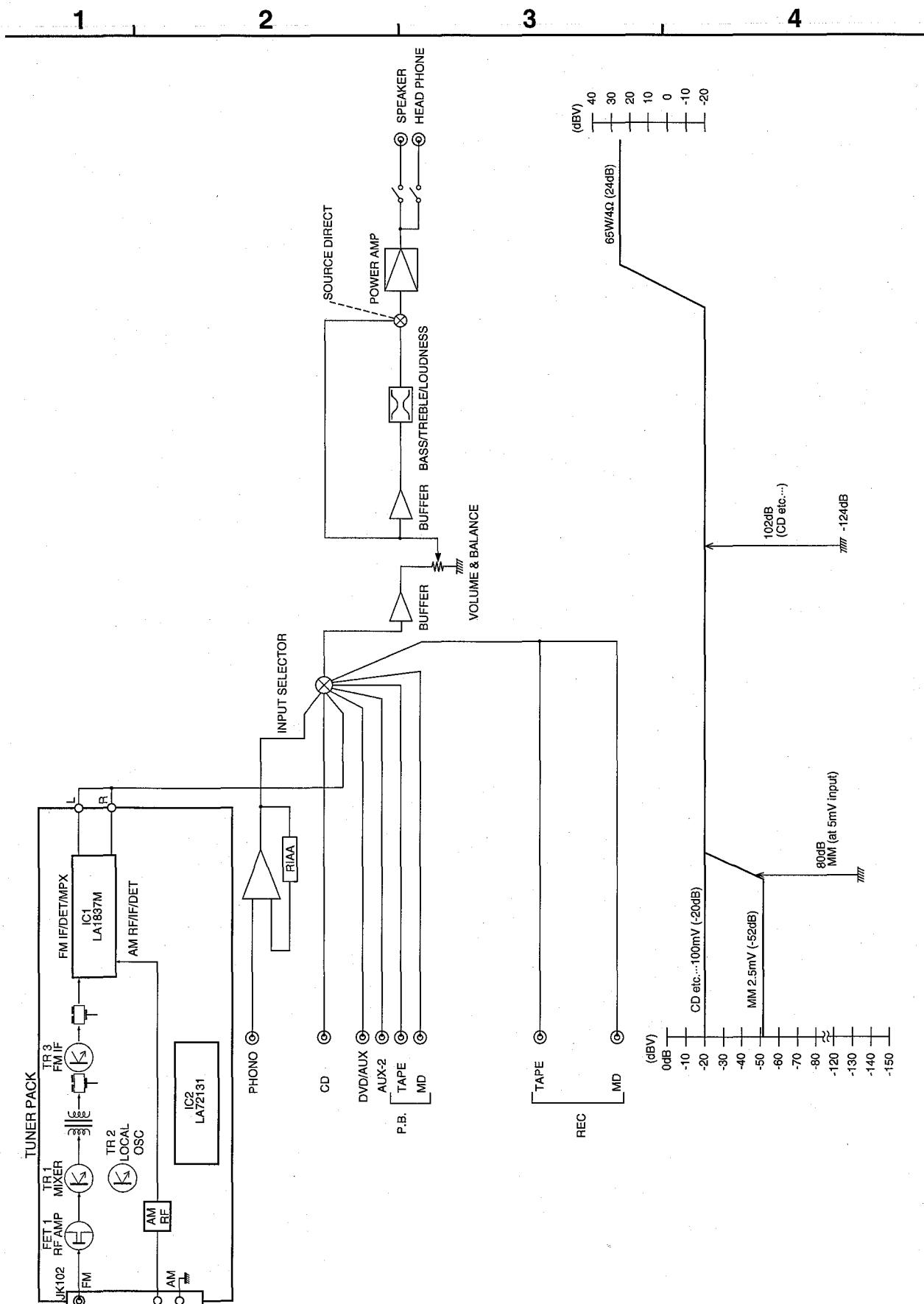


7. Main P.W.B. (1U-3382C-1)

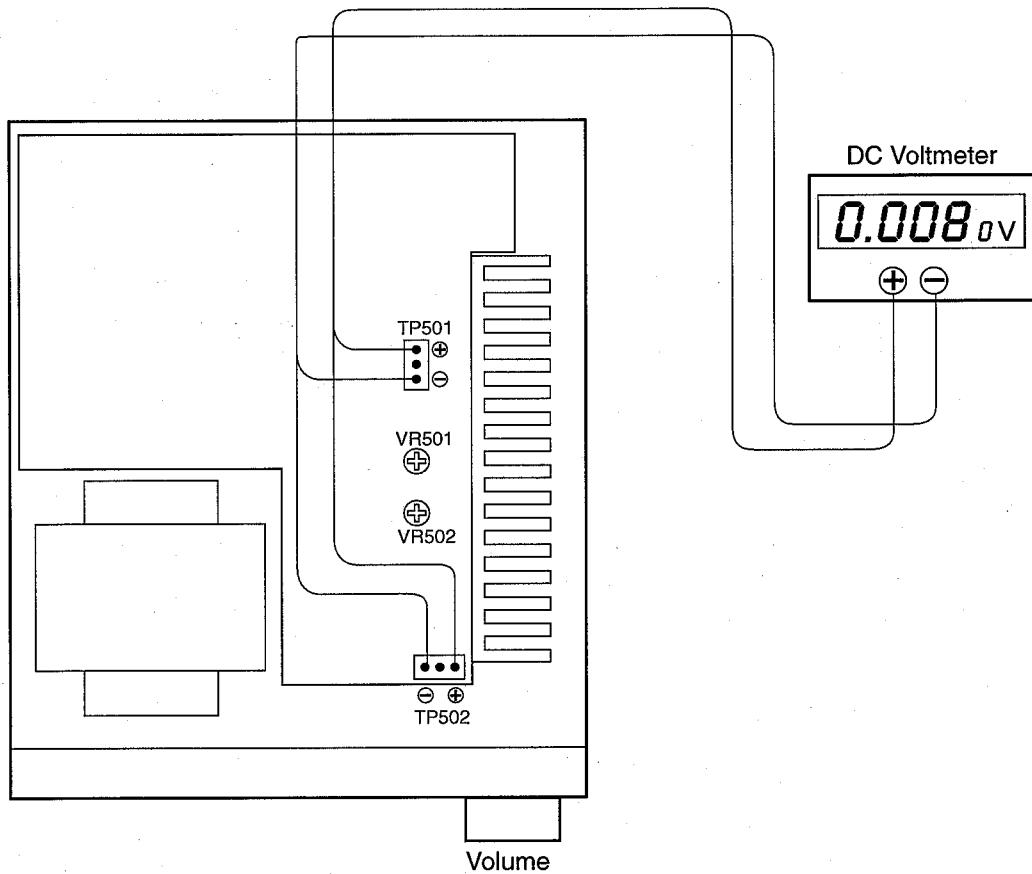
1. Remove 4 screws ⑪, 1 screw ⑫, 4 screws ⑬, 2 screws ⑭.
2. The Main P.W.B. and Power radiator can be detached in the arrow direction with the Back Panel.



BLOCK AND LEVEL DIAGRAM



ADJUSTMENT



IDLING CURRENT

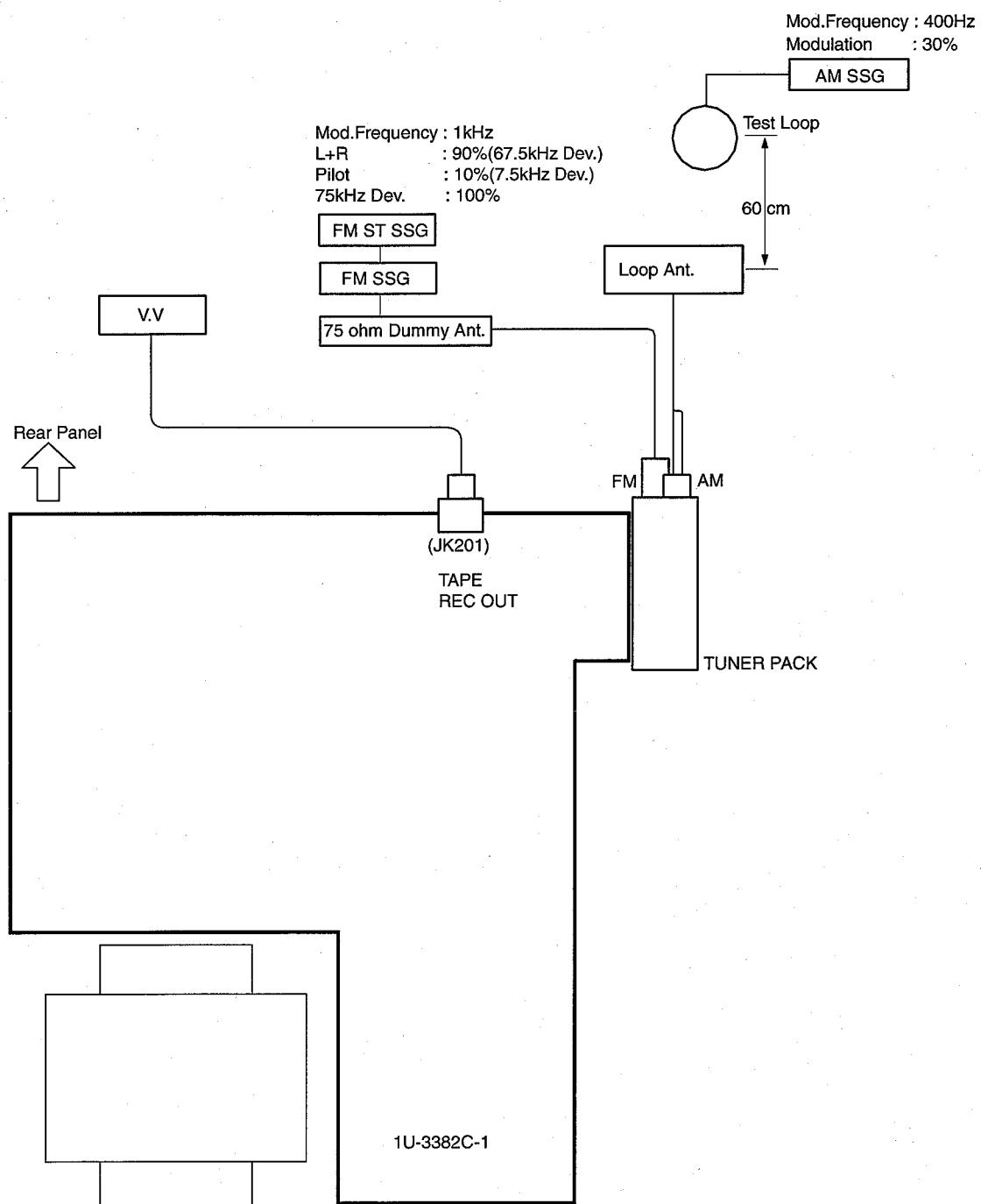
● Setup

1. Place the unit at an ordinary position avoiding direct air flow from an air-conditioner or fan. Do the adjustment at a temperature between 15 °C (59 °F) and 30 °C (86 °F).
2. Set control as follows.

VOLUME control → fully counterclockwise (1 min.)
 SPEAKER terminals → open: do not connect the speakers, dummy load etc.

● Adjustment

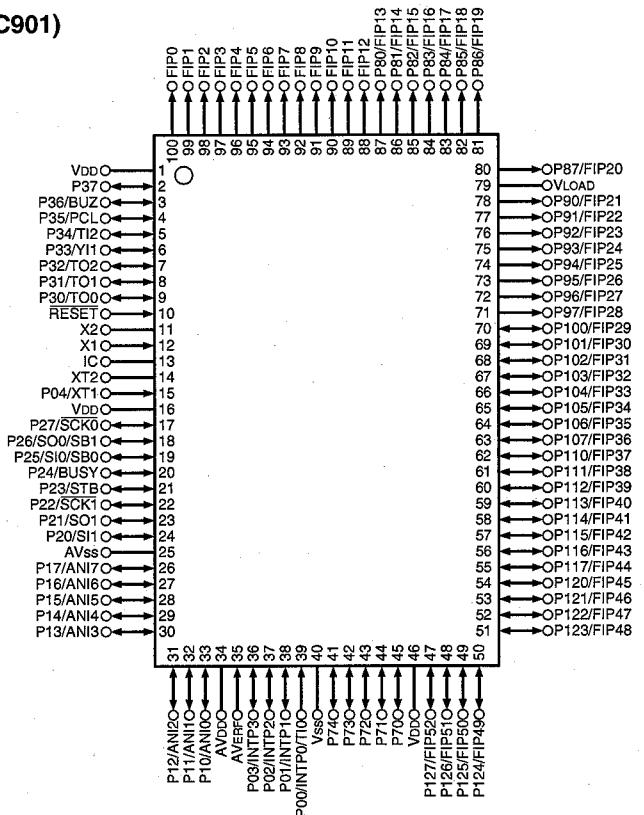
1. Remove top cover. And then connect DC voltmeter to the test points TP501 and TP502 of MAIN P.W.B.
2. Connect power cord to AC230V (218 ~ 242V) wall outlet, and turn POWER switch "ON".
3. Right after power on, adjust VR501 and VR502 so that the DC voltmeter reads $10 \pm 1\text{mV}$.
4. Then after 2 minutes warmup adjust VR501 and VR502 so that the DC voltmeter reads $10 \pm 1\text{mV}$.
5. And after 10 minutes warmup adjust VR501 and VR502 so that the DC voltmeter reads $10 \pm 0.5\text{mV}$.

CHECK**● Connection Diagram****1U-3393-1 Main P.W.B. (Component Side)**

SEMICONDUCTORS

● IC's

μPD780208GF-114 (IC901)

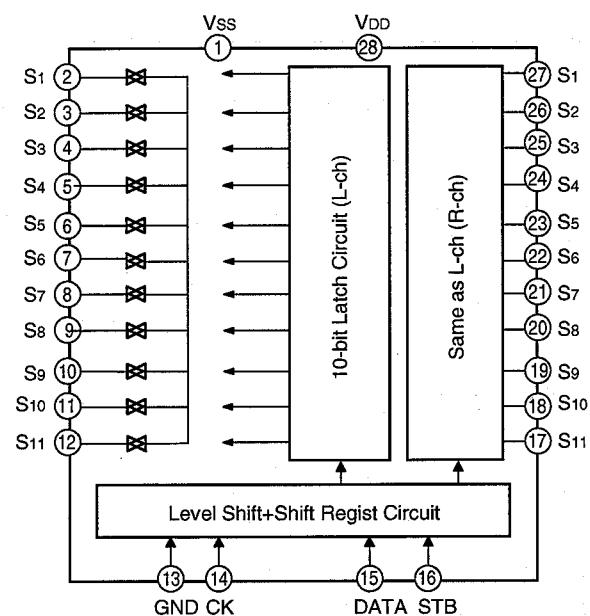
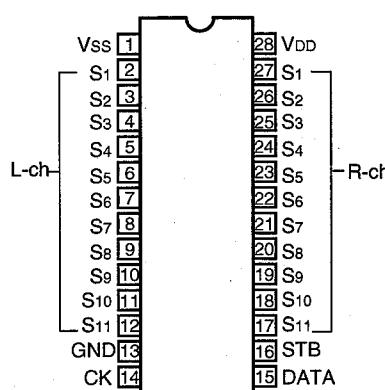


μPD780208GF-114 Terminal Function

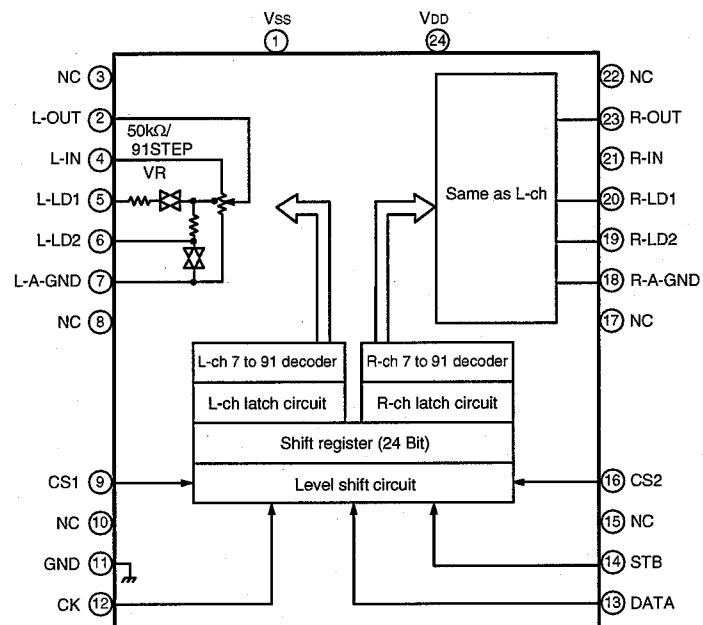
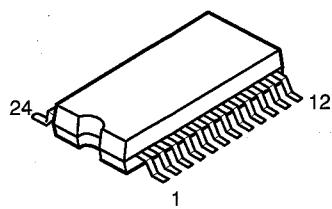
Pin No.	Pin Name	Symbol	I/O	Det	Res	Ext	Act	INIT	MO	Function
1	VDD	+5V	—	—	—	—	—	—	—	Positive power, Output relay on/off, H: Output on
2	P37	RL-HP	O	Lv	Z	—	H	L	—	Headphone
3	P36/BUZ	LED-G	O	—	Z	—	H	L	—	Power on LED drive output
4	P35/PCL	LED-R	O	—	Z	—	H	L	—	Standby LED drive output
5	P34/TI2	RL-CD	O	—	Z	Pd	H	L	—	CD input select relay output
6	P33/TI1	RL-DVD	O	—	Z	Pd	H	L	—	DVD input select relay output
7	P32/TO2	VOL.UP	O	—	Z	—	—	L	—	Not used
8	P31/TO1	VOL.DOWN	O	—	Z	—	—	L	—	Not used
9	P30/TO0	RL-SD	O	—	Z	Pd	H	L	—	Source direct relay output
10	RESET	RESET	I	—	—	—	L	—	—	m-com reset input
11	X2	X2	—	—	—	—	—	—	—	X'tal connection for main clock oscillation
12	X1	X1	I	—	—	—	—	—	—	X'tal connection for main clock oscillation 4.19 MHz
13	IC	IC	—	—	—	—	—	—	—	Internal connection, Connect to Vss directly
14	XT2	XT2	—	—	—	—	—	—	—	X'tal connection for sub clock oscillation, Not used: NC
15	P04/XT1	P04/XT1	I	—	Z	—	—	—	—	X'tal connection for sub clock oscillation, Not used: To Vss or VDD
16	VDD	VDD	—	—	—	—	—	—	—	Positive power
17	P27/SCK0	DB_CLK	O	—	Z	—	—	H	—	DENON bus clock output
18	P26/SO0/SB1	DB_TXD	O	—	Z	—	—	H	—	DENON bus data output
19	P25/SO0/SB0	DB_RXD	I	Ed	Z	—	—	—	—	DENON bus data input
20	P24/BUSY	RDSRST	O	—	Z	—	L	H	—	RDS IC reset output
21	P23/STB	DATA_CE	O	—	Z	—	H	L	—	Data bus (PLL, VOL, RDS IC comm.) chip enable output
22	P22/SCK1	DATA_CLK	O	—	Z	—	—	H	—	Data bus (PLL, VOL, RDS IC comm.) clock output
23	P21/SO1	DATA_TXD	O	—	Z	—	—	H	—	Data bus (PLL, VOL, RDS IC comm.) data output
24	P20/SI1	DATA_RXD	I	Ed	Z	—	—	—	—	Data bus (PLL, VOL, RDS IC comm.) data input
25	AVss	AVSS	—	—	—	—	—	—	—	GND potential of A/D converter
26	P17/ANI7	RL-PRE	O	—	Z	—	H	L	—	Not Used
27	P16/ANI6	F-STB	O	—	Z	—	H	L	—	Function select IC strobe output
28	P15/ANI5	V-STB	O	—	Z	—	H	L	—	Volume IC strobe output
29	P14/ANI4	T-STB	O	—	Z	—	H	L	—	Tone control IC strobe output
30	P13/ANI3	CE-R	O	—	Z	—	H	L	—	EEPROM chip enable output
31	P12/ANI2	NC	O	—	Z	—	—	L	—	Not used

Pin No.	Pin Name	Function Name	I/O	Det	Res	Ext	Act	INIT	MO	Function
32	P11/ANI1	KEY2	I	A	Z	Pu	—	—	—	Key input 2
33	P10/ANI0	KEY1	I	A	Z	Pu	—	—	—	Key input 1
34	AVDD	AVDD	—	—	—	—	—	—	—	Analog power for A/D converter
35	AVREF	AVREF	I	—	—	—	—	—	—	Ref. V input for A/D converter
36	P03/INTP3	PROTECT	I	—	Z	—	L	—	—	Amp protect input
37	P02/INTP2	DBRXD	I	Ed	Z	—	—	—	—	DENON bus data input
38	P01/INTP1	50/60	I	Ed	Z	Pu	—	—	—	50/60 Hz AC input
39	P00/INTP0	REMOCON	I	—	Z	—	H	—	—	Remote control input
40	Vss	VSS	—	—	—	—	—	—	—	GND
41	P74	RL-SPA	O	—	Z	Pd	H	L	—	Not Used
42	P73	RL-SPB	O	—	Z	Pd	H	L	—	Speaker B relay output, H: Output
43	P72	CLOCK	O	—	Z	—	H	L	—	Clock output for function, tone, volume IC
44	P71	DATA	O	—	Z	—	—	L	—	Data output for function, tone, volume IC
45	P70	TMUTE	O	—	Z	Pu	L	L	N	Tuner mute output, L: Mute on
46	VDD	VDD	—	—	—	—	—	—	—	Positive power
47	P127/FIP52	ENC-A	I	—	Z	—	—	—	—	Rotary encoder input A for volume
48	P126/FIP51	ENC-B	I	—	Z	—	—	—	—	Rotary encoder input B for volume
49	P125/FIP50	SEL-A	I	—	Z	—	—	—	—	Rotary encoder input A for select
50	P124/FIP49	SEL-B	I	—	Z	—	—	—	—	Rotary encoder input B for select
51	P123/FIP48	NC	O	—	Z	—	—	L	—	Not used
52	P122/FIP47	AM STEREO	I/O	Lv	Z	—	L	—	N	AM stereo demodulation detect input, L: Stereo
53	P121/FIP46	SD	I	Lv	Z	Pu	L	—	N	FM/AM tune signal input, L: Tuned
54	P120/FIP45	ST IND	I	Lv	Z	Pu	L	—	N	FM stereo demodulation detect input, L: Stereo
55	P117/FIP44	USA	I	Lv	Z	—	—	—	N	Initial setting input
56	P116/FIP43	EUR	I	Lv	Z	—	—	—	N	Initial setting input
57	P115/FIP42	FREQ	I	Lv	Z	—	—	—	N	Initial setting input
58	P114/FIP41	RDS	I	Lv	Z	—	—	—	N	Initial setting input
59	P113/FIP40	NC	O	—	Z	—	—	L	—	Not used
60	P112/FIP39	NC	O	—	Z	—	—	L	—	Not used
61	P111/FIP38	NC	O	—	Z	—	—	L	—	Not used
62	P110/FIP37	NC	O	—	Z	—	—	L	—	Not used
63	P107/FIP36	NC	O	—	Z	—	—	L	—	Not used
64	P106/FIP35	NC	O	—	Z	—	—	L	—	Not used
65	P105/FIP34	NC	O	—	Z	—	—	L	—	Not used
66	P104/FIP33	NC	O	—	Z	—	—	L	—	Not used
67	P103/FIP32	V.MUTE	O	—	Z	—	H	L	—	Mute output at volume 00, H: Mute
68	P102/FIP31	POWER	O	—	Z	Pd	L	L	N	Amp circuit power on/off output, L: On
69	P101/FIP30	AUTO/MONO	O	—	Z	Pd	—	—	N	FM auto/mono switching, H: Mono
70	P100/FIP29	SP-OFF	I	—	Z	Pd	L	L	N	Headphone SW input, H: Speaker, pre-out off
71	P97/FIP28	NC	O	—	Z	—	—	L	—	Not used
72	P96/FIP27	NC	O	—	Z	—	—	L	—	Not used
73	P95/FIP26	SEG1	O	—	Z	Pd	—	—	N	Segment output 2
74	P94/FIP25	SEG2	O	—	Z	Pd	—	—	N	Segment output 3
75	P93/FIP24	SEG3	O	—	Z	Pd	—	—	N	Segment output 4
76	P92/FIP23	SEG4	O	—	Z	Pd	—	—	N	Segment output 5
77	P91/FIP22	SEG5	O	—	Z	Pd	—	—	N	Segment output 6
78	P90/FIP21	SEG6	O	—	Z	Pd	—	—	N	Segment output 7
79	VLOAD	VLOAD	—	—	—	—	—	—	—	FL driver pull-down R connection (-30V power)
80	P87/FIP20	SEG7	O	—	Z	Pd	—	—	N	Segment output 8
81	P86/FIP19	SEG8	O	—	Z	Pd	—	—	N	Segment output 9
82	P85/FIP18	SEG9	O	—	Z	Pd	—	—	N	Segment output 10
83	P84/FIP17	SEG10	O	—	Z	Pd	—	—	N	Segment output 11
84	P83/FIP16	SEG11	O	—	Z	Pd	—	—	N	Segment output 12
85	P82/FIP15	SEG12	O	—	Z	Pd	—	—	N	Segment output 13
86	P81/FIP14	SEG13	O	—	Z	Pd	—	—	N	Segment output 14
87	P80/FIP13	SEG14	O	—	Z	Pd	—	—	N	Segment output 15
88	FIP12	SEG15	O	—	Z	Pd	—	—	—	Segment output 16
89	FIP11	SEG16	O	—	Z	Pd	—	—	—	Digit output 12
90	FIP10	DIG11	O	—	Z	Pd	—	—	—	Digit output 11
91	FIP9	DIG10	O	—	Z	Pd	—	—	—	Digit output 10
92	FIP8	DIG9	O	—	Z	Pd	—	—	—	Digit output 9
93	FIP7	DIG8	O	—	Z	Pd	—	—	—	Digit output 8
94	FIP6	DIG7	O	—	Z	Pd	—	—	—	Digit output 7
95	FIP5	DIG6	O	—	Z	Pd	—	—	—	Digit output 6
96	FIP4	DIG5	O	—	Z	Pd	—	—	—	Digit output 5
97	FIP3	DIG4	O	—	Z	Pd	—	—	—	Digit output 4
98	FIP2	DIG3	O	—	Z	Pd	—	—	—	Digit output 3
99	FIP1	DIG2	O	—	Z	Pd	—	—	—	Digit output 2
100	FIP0	DIG1	O	—	Z	Pd	—	—	—	Digit output 1

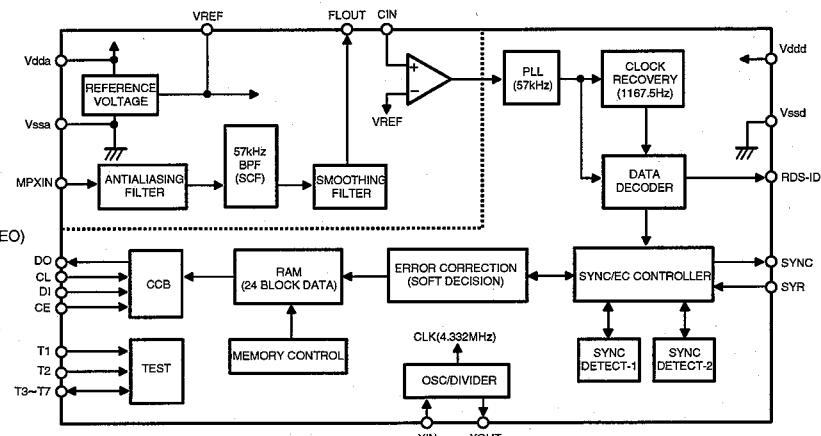
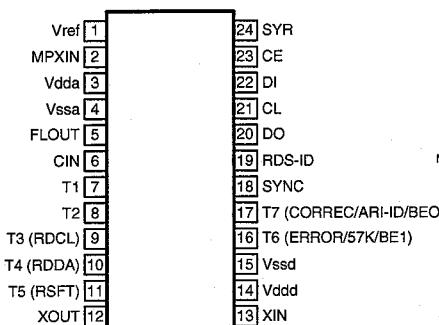
TC9273N-004 (IC201)



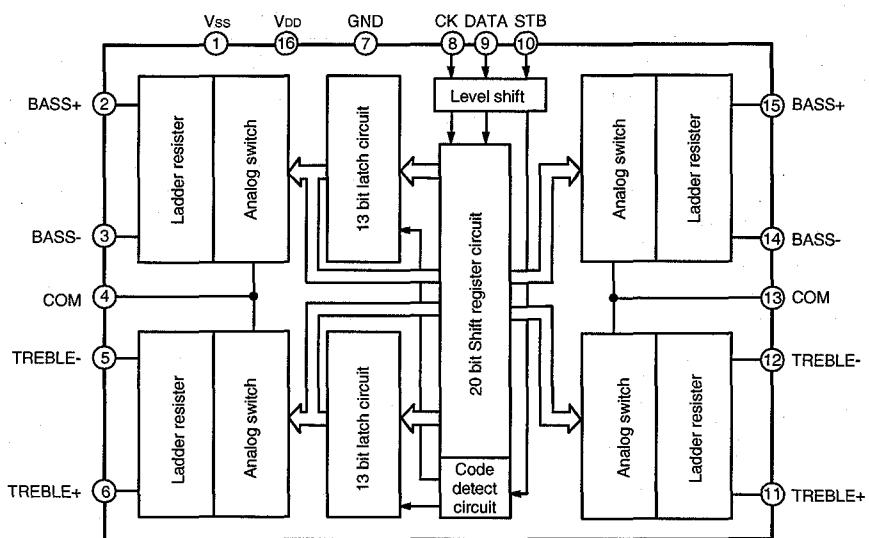
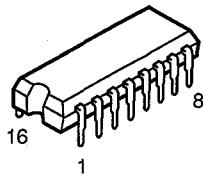
TC9459F (IC302)



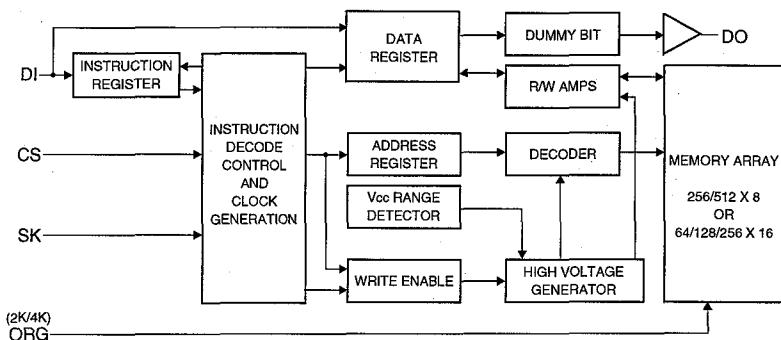
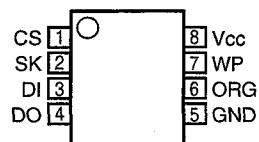
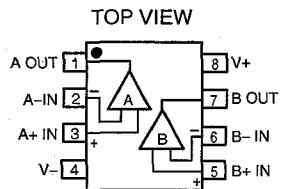
LC72720NM (IC303)



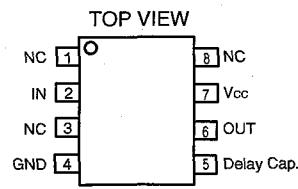
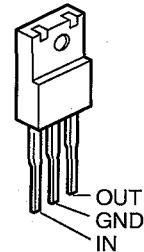
TC9184AP (IC304)



93LC66 (IC905)

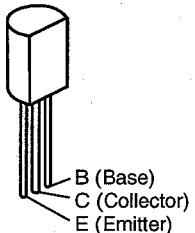
NJM2068MD-T1 (IC301, IC303)
NJM2068DDC (IC401)

M51957BFP (IC903)

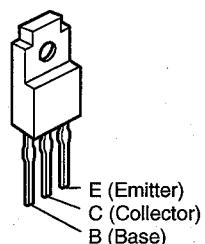
BA05T (IC907)
NJM7812FA(S) (IC101)

● TRANSISTORS

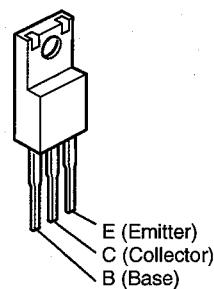
2SA988 (E/F)
2SC1841 (E/F)



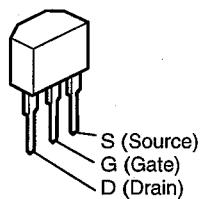
2SA1837 (Y)
2SC4793 (Y)



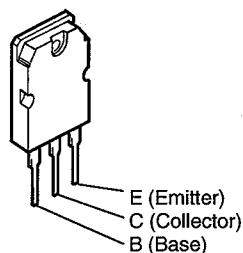
2SC4495 (O/Y)



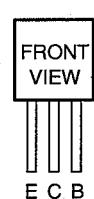
2SK184C (GR)/(BL)



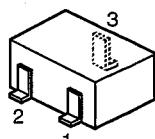
2SB1383 (P/Y)
2SD2083 (P/Y)



2SB1328

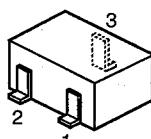


2SC2412K (S)
2SA1037K (S/R)



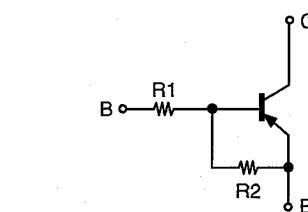
1: E (Emitter)
2: B (Base)
3: C (Collector)

DTA114EK
DTA114YK
DTA115TK
DTA143TK
DTC114YK
DTC323TK

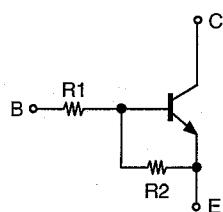


1: E (Emitter)
2: B (Base)
3: C (Collector)

DTA114EK
DTA114YK
DTA115TK
DTA143TK



DTC114YK
DTC323TK

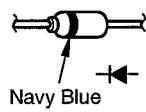


	R1	R2
DTA114EK	10 KΩ	10 KΩ
DTA114YK	10 KΩ	47 KΩ
DTA115TK	100 KΩ	—
DTA143TK	4.7 KΩ	—

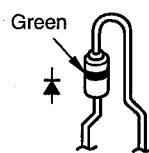
	R1	R2
DTC114YK	10 KΩ	47 KΩ
DTC323TK	2.2 KΩ	—

● DIODES (including LED)

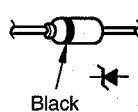
1N4148
1SS270A



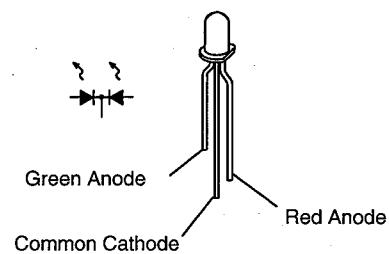
1SR35-400A



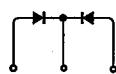
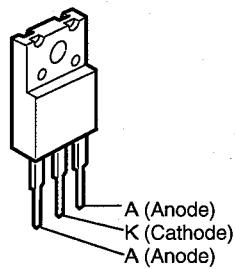
MTZJ2.7A
MTZJ3.3A
MTZJ5.6A
MTZJ6.2A
MTZJ7.5C
MTZJ18A
MTZJ39A



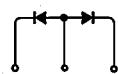
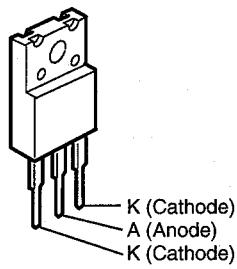
SLR-9335DS-91 (LD901)



FMG22S

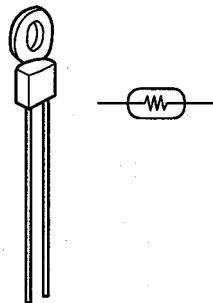


FMG22R



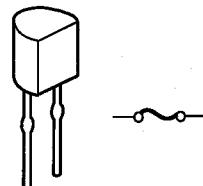
● POSISTOR

PTH9M04BC222TS2F333 (TH701)



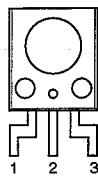
● IC PROTECTOR

ICP-N15 (IC102, 103, 906, 908)

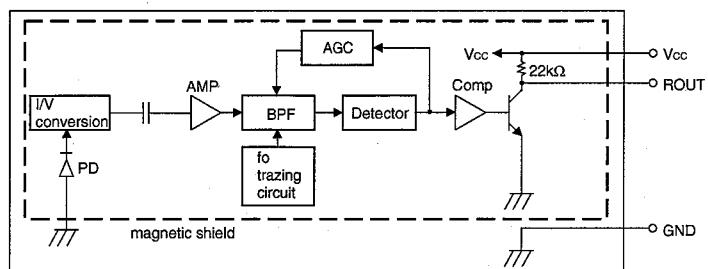


● IR SENSOR

RPM6938-V4 (IC902)

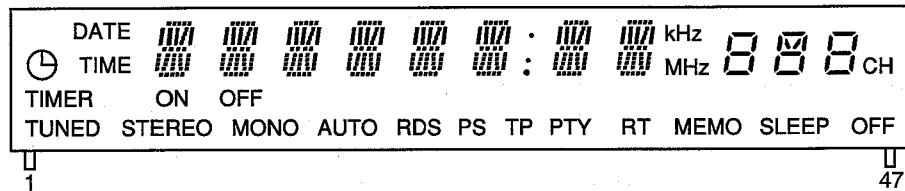


1:Rout
2:GND
3:Vcc



● FL DISPLAY (FL901)

11-BT-187GNK (Part No.:393 8054 002)

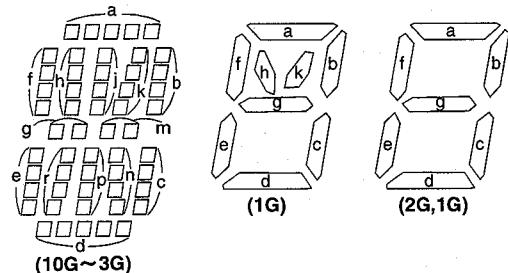
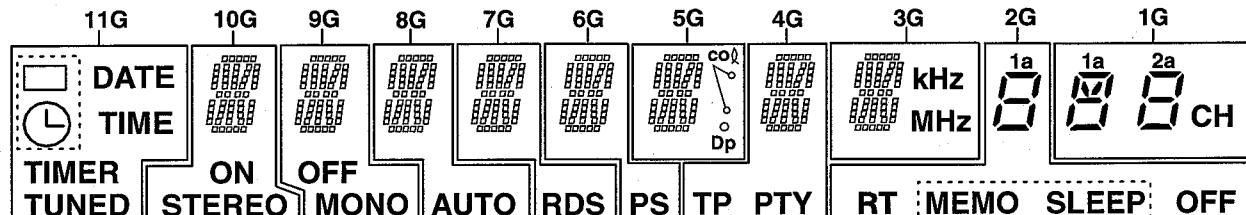


Pin Connection

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Connection	F1	F1	NP	NP	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	NC								
Pin No.	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	
Connection	NC	NC	NC	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NP	NP	F2	F2	

NOTE 1) F1, F2 --- Filament 2) NP ----- No Pin 3) NC ----- No Connection 4) 1G~11G – Grid

Grid Assignment/Pattern Layout



Illumination Color

Reddish Orange ----- Above pattern part
Green ----- Others

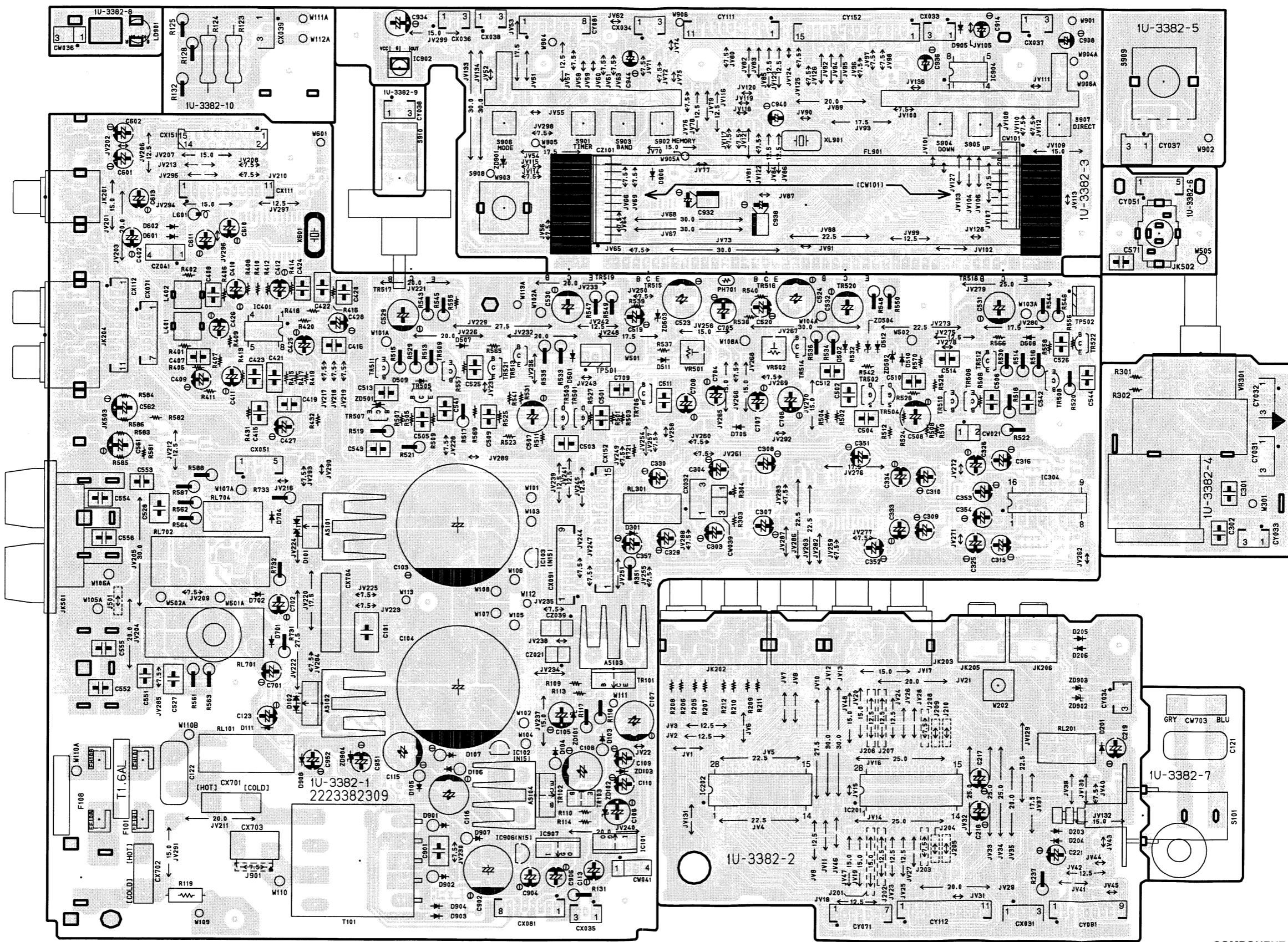
Anode Connection

	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	□	a	a	a	a	a	a	a	a	1a	1a
P2	DATE	b	b	b	b	b	b	b	b	1b	1b
P3	(L)	c	c	c	c	c	c	c	c	1c	1c
P4	TIME	d	d	d	d	d	d	d	d	1d	1d
P5	TIMER	e	e	e	e	e	e	e	e	1e	1e
P6	TUNED	f	f	f	f	f	f	f	f	1f	1f
P7	-	g	g	g	g	g	g	g	g	1g	1g
P8	-	h	h	h	h	h	h	h	h	RT	1h,1k
P9	-	j	j	j	j	j	j	j	j	MEMO	2a
P10	-	k	k	k	k	k	k	k	k	SLEEP	2b
P11	-	m	m	m	m	m	m	m	m	OFF	2c
P12	-	n	n	n	n	n	n	n	n	-	2d
P13	-	p	p	p	p	p	p	p	p	-	2e
P14	-	r	r	r	r	r	r	r	r	-	2f
P15	-	ON	OFF	AUTO	RDS	PS	col	TP	kHz	-	2g
P16	-	STEREO	MONO	-	-	-	Dp	PTY	MHz	-	CH

PRINTED WIRING BOARD

1 _____ 2

1U-3382C MAIN P.W.B. UNIT Ass'y



COMPONENT SIDE

1

2

1

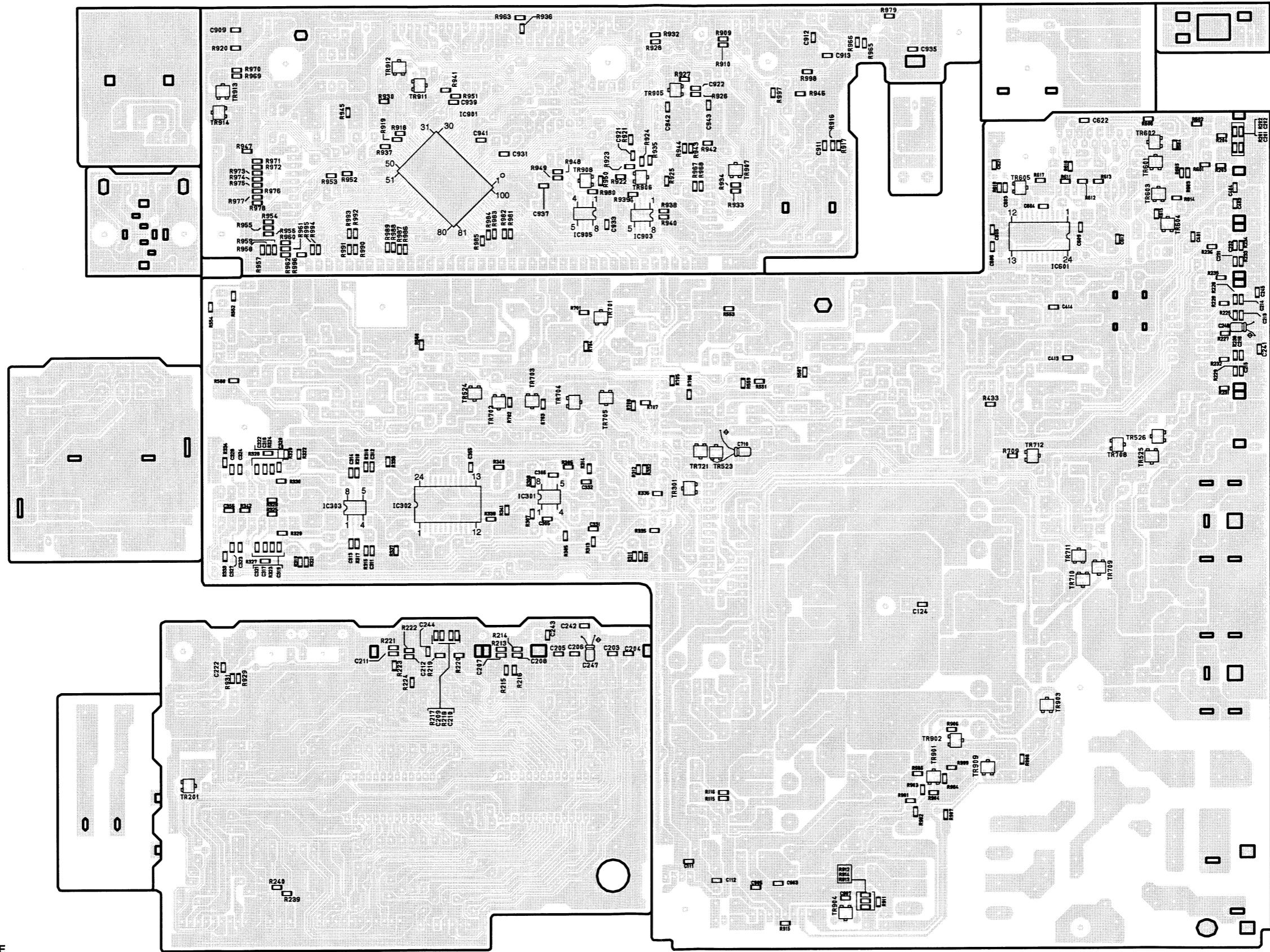
1

1

7

8

1U-3382C MAIN P.W.B. UNIT Ass'y



FOIL SIDE

NOTE FOR PARTS LIST

- Part indicated with the mark "◎" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W. Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:

Parts marked with this symbol  have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

● Resistors

Ex.: RN	Type	14K	2E	182	G	FR
	Shape and performance		Power	Resistance	Allowable error	Others
RD : Carbon		28 : 1/8W	F	: ±1%	P : Pulse-resistant type	
RC : Composition		2E : 1/4W	G	: ±2%	NL : Low noise type	
RS : Metal oxide film		2H : 1/2W	J	: ±5%	NB : Non-burning type	
RW : Winding		3A : 1W	K	: ±10%	FR : Fuse-resistor	
RN : Metal film		3D : 2W	M	: ±20%	F : Lead wire forming	
RK : Metal mixture		3F : 3W				
		3H : 5W				

* Resistance

1 8 2 \Rightarrow 1800 ohm = 1.8 kohm
 Indicates number of zeros after effective number.
 2-digit effective number.

- Units: ohm

1 R 2 \Rightarrow 1.2 ohm
 1-digit effective number.
 2-digit effective number, decimal point indicated by R.

- Units: ohm

● Capacitors

Ex.: CE	04W	1H	2R2	M	BP
Type	Shape and performance	Dielectric strength	Capacity	Allowable error	Others
CE : Aluminum foil electrolytic	0J : 6.3V	F : ±1%	HS : High stability type		
CA : Aluminum solid electrolytic	1A : 10V	G : ±2%	BP : Non-polar type		
CS : Tantalum electrolytic	1C : 16V	J : ±5%	HR : Ripple-resistant type		
CQ : Film	1E : 25V	K : ±10%	DL : For charge and discharge		
CK : Ceramic	1V : 35V	M : ±20%	HF : For assuring high frequency		
CC : Ceramic	1H : 50V	Z : +80%	U : UL part		
CP : Oil	2A : 100V	-20%	C : CSA part		
CM : Mica	2B : 125V	P : +100%	W : UL-CSA type		
CF : Metallized	2C : 160V	-0%	F : Lead wire forming		
CH : Metallized	2D : 200V	C : ±0.25pF			
	2E : 250V	D : ±0.5pF			
	2H : 500V	= : Others			
	2J : 630V				

* Capacity (electrolyte only)

2 2 2 \Rightarrow 2200 μ F
 Indicates number of zeros after effective number.
 2-digit effective number.

- Units: μ F

2 R 2 \Rightarrow 2.2 μ F
 1-digit effective number.
 2-digit effective number, decimal point indicated by R.

- Units: μ F

* Capacity (except electrolyte)

2 2 2 \Rightarrow 2200pF=0.0022 μ F
 (More than 2) — Indicates number of zeros after effective number.
 2-digit effective number.

- Units: pF

2 2 1 \Rightarrow 220pF
 (0 or 1) — Indicates number of zeros after effective number.
 2-digit effective number.

- Units: pF

• When the dielectric strength is indicated in AC, "AC" is included after the dielectric strength value.

PARTS LIST OF P.W.B. UNIT ASS'Y

1U-3382C MAIN P.W.B. ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks				
SEMICONDUCTORS GROUP											
IC101	263 0801 004	IC NJM7812FA(S)		TR912	269 0101 906	Transistor DTA114YKT146					
IC102,103	268 0073 905	IC ICP-N15T		TR913	269 0083 901	Transistor DTA114EK					
IC201	262 2033 000	IC TC9273N-004		TR914	269 0054 901	Transistor DTC144EK					
IC301	263 0896 909	IC NJM2068MD-T1		D101	276 0681 000	Diode FMG-22S					
IC302	262 2540 904	IC TC9459F-EL		D102	276 0682 009	Diode FMG-22R					
IC303	263 0896 909	IC NJM2068MD-T1		D103-106	276 0704 903	Diode 1SR35-400A(T93X)					
IC304	262 2616 003	IC TC9184AP		D111	276 0432 903	Diode 1SR35-400A(T93X)					
IC401	263 0609 002	IC NJM2068DDC		D203-206	276 0432 903	Diode 1SR35-400A(T93X)					
IC601	262 2547 907	IC LC72720NM		D301	276 0432 903	Diode 1SR35-400A(T93X)					
IC901	262 3076 008	IC UPD780208GF-114-3BA		D501,502	276 0432 903	Diode 1SR35-400A(T93X)					
IC902	499 0301 006	IC RPM6938-V4		D507-512	276 0432 903	Diode 1SR35-400A(T93X)					
IC903	263 0454 901	IC M51957BFP(TP1)		D601,602	276 0432 903	Diode 1SR35-400A(T93X)					
IC905	262 2986 005	IC 93LC66		D702	276 0432 903	Diode 1SR35-400A(T93X)					
IC906	268 0073 905	IC ICP-N15T		D704,705	276 0432 903	Diode 1SR35-400A(T93X)					
IC907	263 1092 003	IC BA05T		D901,902	276 0704 903	Diode 1SR35-400A(T93X)					
IC908	268 0073 905	IC ICP-N15T		D903,904	276 0432 903	Diode 1SR35-400A(T93X)					
TR101	273 0423 007	Transistor 2SC4793-Y		D906	276 0432 903	Diode 1SR35-400A(T93X)					
TR102	271 0272 003	Transistor 2SA1837-Y		D907	276 0704 903	Diode 1SR35-400A(T93X)					
TR103	272 0107 919	Transistor 2SB1328(P/Q)T105		D908	276 0432 903	Diode 1SR35-400A(T93X)					
TR301	269 0144 905	Transistor DTC114YK-T146		ZD101,102	276 0645 907	Zener diode MTZJ18A T77					
TR501-504	275 0055 015	FET 2SK184C (GR)/(BL)		ZD103	276 0645 981	Zener diode MTZJ39A T77					
TR505-508	273 0235 923	Transistor 2SC1841-T(E/F)		ZD501-504	276 0643 925	Zener diode MTZJ2.7A T77					
TR509-512	271 0131 924	Transistor 2SA988-T(E/F)		ZD901	276 0643 996	Zener diode MTZJ5.6A T77					
TR513,514	273 0235 923	Transistor 2SC1841-T(E/F)		ZD902,903	276 0637 902	Zener diode MTZJ6.2AT77					
TR521,522	273 0235 923	Transistor 2SC1841-T(E/F)		ZD904	276 0634 905	Zener diode MTZJ3.3A					
TR523,524	269 0066 902	Transistor DTC323TK		LD901	393 9594 008	LED SLR-9335DS-91					
TR601,602	269 0066 902	Transistor DTC323TK		RESISTORS GROUP							
TR603	269 0083 901	Transistor DTA114EK		R115	247 2010 969	Carbon chip 22 kohm 1/16W	RM73B--223JT				
TR604	269 0082 902	Transistor DTC114EK		R116	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT				
TR605	273 0384 900	Transistor 2SC2412KT96(S)		R123,124	244 0087 021	Metal oxide 120 ohm 2W(NB)	RS14B3D121JNBF				
TR701-703	273 0384 900	Transistor 2SC2412KT96(S)		R213,214	247 2013 940	Carbon chip 330 kohm 1/16W	RM73B--334JT				
TR704	271 0238 908	Transistor 2SA1037KT96(S/R)		R215,216	247 2005 987	Carbon chip 220 ohm 1/16W	RM73B--221JT				
TR705	273 0384 900	Transistor 2SC2412KT96(S)		R217,218	247 2013 940	Carbon chip 330 kohm 1/16W	RM73B--334JT				
TR706	271 0131 924	Transistor 2SA988-T(E/F)		R219,220	247 2005 987	Carbon chip 220 ohm 1/16W	RM73B--221JT				
TR710,711	269 0091 906	Transistor DTC143TKT96		R221,222	247 2013 940	Carbon chip 330 kohm 1/16W	RM73B--334JT				
TR721	269 0087 907	Transistor DTA143TKT96		R223,224	247 2005 987	Carbon chip 220 ohm 1/16W	RM73B--221JT				
TR901-905	273 0384 900	Transistor 2SC2412KT96(S)		R225,226	247 2015 964	Carbon chip 2.7 Mohm 1/16W	RM73B--275KT				
TR906	271 0238 908	Transistor 2SA1037KT96(S/R)		R227,228	247 2005 987	Carbon chip 220 ohm 1/16W	RM73B--221JT				
TR907	273 0384 900	Transistor 2SC2412KT96(S)		R229,230	247 2015 964	Carbon chip 2.7 Mohm 1/16W	RM73B--275KT				
TR908	269 0185 906	Transistor DTA115TKAT146									
TR909	269 0054 901	Transistor DTC144EK									

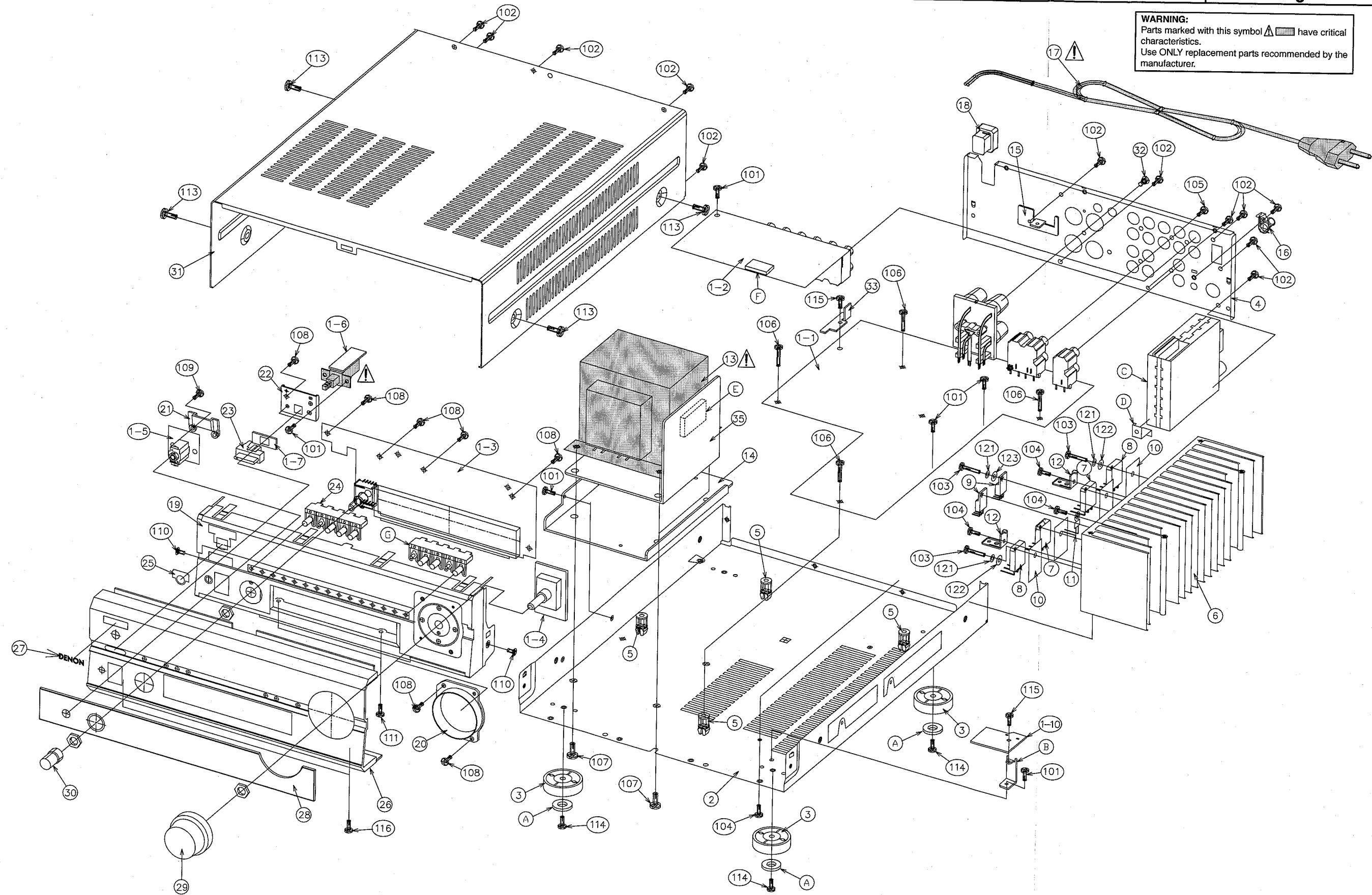
Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R231,232	247 2005 987	Carbon chip 220 ohm 1/16W	RM73B-221JT	R909,910	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B-0R0KT
R239,240	247 2010 956	Carbon chip 20 kohm 1/16W	RM73B-203JT	R911	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B-103JT
R305,306	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B-101JT	R912	247 2008 968	Carbon chip 3.3kohm 1/16W	RM73B-332JT
R307,308	247 2012 925	Carbon chip 100 kohm 1/16W	RM73B-104JT	R913,914	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B-103JT
R311,312	247 2009 967	Carbon chip 8.2 kohm 1/16W	RM73B-822JT	R915	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B-472JT (1608)
R315-318	247 2013 982	Carbon chip 470 kohm 1/16W	RM73B-474JT	R916,917	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B-101JT
R319,320	247 2012 909	Carbon chip 82 kohm 1/16W	RM73B-823JT	R918,919	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B-102JT
R321,322	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B-472JT (1608)	R921,922	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B-103JT
R323,324	247 2011 926	Carbon chip 39 kohm 1/16W	RM73B-393JT	R923,924	247 2010 969	Carbon chip 22 kohm 1/16W	RM73B-223JT
R325,326	247 2014 907	Carbon chip 560 kohm 1/16W	RM73B-564JT	R925	247 2008 926	Carbon chip 2.2 kohm 1/16W	RM73B-222JT
R327,328	247 2009 925	Carbon chip 5.6 kohm 1/16W	RM73B-562JT	R926,927	247 2010 969	Carbon chip 22 kohm 1/16W	RM73B-223JT
R329,330	247 2010 985	Carbon chip 27 kohm 1/16W	RM73B-273JT	R928	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B-102JT
R331,332	247 2007 972	Carbon chip 1.3 kohm 1/16W	RM73B-132JT	R929	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B-101JT
R333,334	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B-102JT	R930	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B-473JT
R335-338	247 2012 925	Carbon chip 100 kohm 1/16W	RM73B-104JT	R931	247 2005 987	Carbon chip 220 ohm 1/16W	RM73B-221JT
R339,340	247 2010 969	Carbon chip 22 kohm 1/16W	RM73B-223JT	R932	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B-473JT
R351	241 2378 988	Carbon film 390 ohm 1/4W(NB)	RD14B2E391JNBST	R933,934	247 2010 969	Carbon chip 22 kohm 1/16W	RM73B-223JT
R513-520	241 2378 962	Carbon film 330 ohm 1/4W(NB)	RD14B2E331JNBST	R935	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B-103JT
R521,522	244 2064 932	Metal oxide 3.9 kohm 1W(NB)	RS14B3A392JNBST(S)	R936,937	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B-473JT
R529,530	241 2377 921	Carbon film 82 ohm 1/4W(NB)	RD14B2E820JNBST	R938	247 2011 900	Carbon chip 33 kohm 1/16W	RM73B-333JT
R533-536	241 2377 992	Carbon film 160 ohm 1/4W(NB)	RD14B2E161JNBST	R939	247 2010 927	Carbon chip 15 kohm 1/16W	RM73B-153JT
R543-550	244 2043 982	Metal oxide 1W(NB)	RS14B3AR22JNBST(S)	R940	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B-103JT
R551-554	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B-103JT	R941	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B-102JT
R559,560	247 2011 926	Carbon chip 39 kohm 1/16W	RM73B-393JT	R942	247 2005 945	Carbon chip 150 ohm 1/16W	RM73B-151JT
R561-564	244 2043 937	Metal oxide 10 ohm 1W(NB)	RS14B3A100JNBST(S)	R943	247 2005 961	Carbon chip 180ohm 1/16W	RM73B-181JT
R567,568	247 2010 969	Carbon chip 22 kohm 1/16W	RM73B-223JT	R944	247 2006 915	Carbon chip 270ohm 1/16W	RM73B-271JT
R587,588	244 2052 931	Metal oxide 390 ohm 1W(NB)	RS14B3A391JNBST(S)	R945	247 2006 944	Carbon chip 390ohm 1/16W	RM73B-391JT
R601,602	247 2012 925	Carbon chip 100 kohm 1/16W	RM73B-104JT	R946	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B-102JT
R605,606	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B-102JT	R947	247 2005 945	Carbon chip 150 ohm 1/16W	RM73B-151JT
R611,612	247 2011 968	Carbon chip 56 kohm 1/16W	RM73B-563JT	R948-950	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B-103JT
R613	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B-103JT	R951-962	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B-473JT
R614,615	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B-472JT (1608)	R963	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B-0R0KT
R616	247 2008 913	Carbon chip 2kohm 1/16W	RM73B-202JT	R964	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B-103JT
R617	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B-103JT	R965	247 2005 987	Carbon chip 220 ohm 1/16W	RM73B-221JT
R618	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B-102JT	R966	247 2006 902	Carbon chip 330 ohm 1/16W	RM73B-331JT (1608)
R701	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B-101JT	R967-970	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B-103JT
R702	247 2010 956	Carbon chip 20 kohm 1/16W	RM73B-203JT	R972,973	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B-473JT
R703,704	247 2012 925	Carbon chip 100 kohm 1/16W	RM73B-104JT	R976,977	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B-473JT
R705	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B-102JT	R979	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B-470JT
R706,707	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B-103JT	R980	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B-473JT
R708	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B-102JT	R981-996	247 2012 925	Carbon chip 100 kohm 1/16W	RM73B-104JT
R732	244 2051 961	Metal oxide 100 ohm 1W(NB)	RS14B3A101JNBST(S)	R997	247 2006 944	Carbon chip 390ohm 1/16W	RM73B-391JT
R733	241 2378 988	Carbon film 390 ohm 1/4W(NB)	RD14B2E391JNBST	R998	247 2007 901	Carbon chip 680ohm 1/16W	RM73B-681JT
R901	247 2011 968	Carbon chip 56 kohm 1/16W	RM73B-563JT	R999	247 2012 925	Carbon chip 100 kohm 1/16W	RM73B-104JT
R902	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B-103JT	VR501,502	211 6075 024	Semi fixed resistor 4.7 kohm	V06PB472 (CERMET)
R903-907	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B-472JT (1608)	CAPACITORS GROUP			
R908	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B-473JT	C101	256 1042 903	Metallized 0.1uF/250V	CF93A2E104KT
				C103,104	254 6221 008	Electrolytic 8200uF/63V	CE68W1J822M(DL)
				C105,106	254 4583 955	Electrolytic 22uF/50V	CE04W1H220MT(ROB)
				C107,108	254 4580 712	Electrolytic 100uF/50V	CE04W1H101MC(ROB)

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
C109,110	254 4524 985	Electrolytic 10uF/50V	CE04W1H100MT SMG/RE3	C541-544	255 1264 940	Mylar film 2200pF/50V	CQ93M1H222JT(B)
C111,112	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C553,554	255 1265 936	Mylar film 0.01uF/50V	CQ93M1H103JT(B)
C113	254 4538 900	Electrolytic 10uF/16V	CE04W1C100MT SMG/RE3	C556	255 1264 940	Mylar film 2200pF/50V	CQ93M1H222JT(B)
C115,116	254 4528 729	Electrolytic 100uF/100V	CE04W2A101MC SMG/RE3	C601,602	254 4524 998	Electrolytic 22 uF/50V	CE04W1H220MT SMG/RE3
C122	253 8022 707	Ceramic 0.01 uF/250V(AC)	CK45F2EAC103MC	C603	257 0507 976	Ceramic chip 330pF/50V	CC73CH1H331JT
C123	254 4313 921	Electrolytic 22uF/50V	CE04W1H220MT(ASF)	C604	257 0508 933	Ceramic chip 560pF/50V	CC73CH1H561JT
C203-216	257 0505 907	Ceramic chip 56 pF/50V	CC73CH1H560JT	C605,606	257 0504 908	Ceramic chip 22 pF/50V	CC73CH1H220JT
C217,218	254 4313 963	Electrolytic 1uF/50V	CE04W1H010MT(ASF)	C609	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C221	254 4313 963	Electrolytic 1uF/50V	CE04W1H010MT(ASF)	C610	254 4538 900	Electrolytic 10uF/16V	CE04W1C100MT SMG/RE3
C222	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	C611	254 4522 903	Electrolytic 4.7 uF/35V	CE04W1V4R7MT SMG/RE3
C241-245	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	C612	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C246	254 4524 985	Electrolytic 10uF/50V	CE04W1H100MT SMG/RE3	C613	254 4538 900	Electrolytic 10uF/16V	CE04W1C100MT SMG/RE3
C247	254 4305 968	Electrolytic 1 uF/50V	CE04W1H010MT(SRE)	C622	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C303,304	254 4313 918	Electrolytic 10uF/50V	CE04W1H100MT(ASF)	C702	254 4313 921	Electrolytic 22uF/50V	CE04W1H220MT(ASF)
C305,306	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101JT	C704	254 4524 914	Electrolytic 0.22uF/50V	CE04W1HR22MT SMG/RE3
C307-309	254 4524 985	Electrolytic 10uF/50V	CE04W1H100MT SMG/RE3	C705	254 4541 900	Electrolytic 10uF/25V	CE04W1E100MT SMG/RE3
C310	254 4313 918	Electrolytic 10uF/50V	CE04W1H100MT(ASF)	C706	254 4533 947	Electrolytic 330uF/6.3V	CE04W0J331MT SMG/RE3
C313,314	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101JT	C707	254 4524 943	Electrolytic 1uF/50V	CE04W1H010MT SMG/RE3
C315,316	254 4524 969	Electrolytic 3.3uF/50V	CE04W1H3R3MT SMG/RE3	C708	254 4524 972	Electrolytic 4.7uF/50V	CE04W1H4R7MT SMG/RE3
C317,318	257 0517 924	Ceramic chip 0.056uF/16V	CK73B1C563KT	C709	255 1265 936	Mylar film 0.01uF/50V	CQ93M1H103JT(B)
C321,322	257 0510 963	Ceramic chip 8200pF/50V	CK73B1H822KT	C710	254 4524 956	Electrolytic 2.2uF/50V	CE04W1H2R2MT SMG/RE3
C323,324	257 0509 987	Ceramic chip 1800pF/50V	CK73B1H182KT	C901	254 3056 917	Electrolytic 1 uF/50V	CE04D1H010MBPT (SME)
C325,326	254 4524 972	Electrolytic 4.7uF/50V	CE04W1H4R7MT SMG/RE3	C902	254 4403 721	Electrolytic 2200uF/25V	CE04W1E222MC (SMG)
C327,328	257 0501 914	Ceramic chip 0.012uF/25V	CK73B1H123KT	C903	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C329,330	254 4524 972	Electrolytic 4.7uF/50V	CE04W1H4R7MT SMG/RE3	C904	254 4541 900	Electrolytic 10uF/25V	CE04W1E100MT SMG/RE3
C331,332	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101JT	C905	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C333,334	254 4524 972	Electrolytic 4.7uF/50V	CE04W1H4R7MT SMG/RE3	C906	254 4541 900	Electrolytic 10uF/25V	CE04W1E100MT SMG/RE3
C351,352	254 4313 918	Electrolytic 10uF/50V	CE04W1H100MT(ASF)	C907	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C353,354	254 4524 972	Electrolytic 4.7uF/50V	CE04W1H4R7MT SMG/RE3	C908	254 4299 906	Electrolytic 10uF/16V	CE04W1C100MT(SRE)
C357	254 4313 921	Electrolytic 22uF/50V	CE04W1H220MT(ASF)	C909	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C403,404	257 0506 977	Ceramic chip 120pF/50V	CC73CH1H121JT	C911-913	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C407,408	255 1273 957	Mylar film 270pF/50V	CQ93M1H271KT(B)	C921,922	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT
C409,410	254 4538 900	Electrolytic 10uF/16V	CE04W1C100MT SMG/RE3	C931	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C411,412	254 4536 931	Electrolytic 220uF/10V	CE04W1A221MT SMG/RE3	C932	254 4305 984	Electrolytic 2.2uF/50V	CE04W1H2R2MT(SRE)
C413,414	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101JT	C933	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C419,420	255 1265 907	Mylar film 6800pF/50V	CQ93M1H682JT(B)	C934	254 4299 964	Electrolytic 47uF/16V	CE04W1C470MT(SRE)
C421,422	255 1265 978	Mylar film 6800pF/50V	CQ93M1H223JT(B)	C935	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C423,424	255 1264 940	Mylar film 6800pF/50V	CQ93M1H222JT(B)	C936	254 4299 906	Electrolytic 10uF/16V	CE04W1C100MT(SRE)
C425,426	254 4313 963	Mylar film 6800pF/50V	CE04W1H010MT(ASF)	C937	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C427,428	254 4524 956	Mylar film 6800pF/50V	CE04W1H2R2MT SMG/RE3	C938	254 4299 906	Electrolytic 10uF/16V	CE04W1C100MT(SRE)
C501-504	255 1273 902	Mylar film 100pF/50V	CQ93M1H101KT(B)	C939	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C505,506	255 1264 940	Mylar film 2200pF/50V	CQ93M1H222JT(B)	C940	254 4299 906	Electrolytic 10uF/16V	CE04W1C100MT(SRE)
C507,508	254 4583 971	Electrolytic 47uF/50V	CE04W1H470MT(ROB)	C941-943	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C509,510	255 4232 924	Mylar film 39pF/100V	CQ93P2A390JT(NH)	C944	254 4299 906	Electrolytic 10uF/16V	CE04W1C100MT(SRE)
C519,520	254 4313 963	Electrolytic 1uF/50V	CE04W1H010MT(ASF)	C951	254 4524 956	Electrolytic 2.2uF/50V	CE04W1H2R2MT SMG/RE3
C523,524	254 4580 712	Electrolytic 100uF/50V	CE04W1H101MC(ROB)	C952	254 4524 930	Electrolytic 0.47 uF/50V	CE04W1HR47MT SMG/RE3
C525,526	255 1264 908	Mylar film 1000pF/50V	CQ93M1H102JT(B)				
C527,528	256 1058 971	Metalized 0.1uF/50V	CF93A1H104JT (JL)				

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
OTHER PARTS GROUP									
AS101,102	417 0476 007	Radiator		2	JK204	204 8635 008	4P pin jack (C-GND)		1
AS103	417 0476 049	Radiator		1	JK205,206	204 8637 006	Mini jack (STEREO)		2
AS104	417 0476 007	Radiator		1	JK501	205 0526 008	4P SP terminal (EU)		1
AS105-108	471 3304 028	Screw 3x8 CBS-B		4	JK502	204 8636 007	Mini jack (ST.SW)		1
AS122	415 0299 000	Condenser cover		1	L401,402	235 9003 002	FTZ choke coil		2
AS902	449 0172 007	Sensor holder		1	L601	235 0060 918	Inductor 4.7uH		1
AS903,904	461 1110 000	FL spacer(D-SIDE)		2	RL101	214 0214 000	Relay (SDT-S-109LMR)		1
CW21	203 2318 001	2P SAN-SAN cord		1	RL301	214 0203 008	Relay (NA12W-K)		1
CW36	203 5266 008	3P KR-DS connector cord		1	RL702	214 0195 006	Relay FTR-F1		1
CW39	203 5103 022	3P SAN-SAN connector cord		1	RL704	214 0203 008	Relay (NA12W-K)		1
CW41	203 6573 004	4P SAN-SAN cord R		1	S901-907	212 4813 003	Tact switch		7
CW101	204 2896 005	10P DS-DS connector cord		1	S908	212 0465 002	Rotary encoder (F)		1
CX31,32	205 0233 032	3P EH connector base		2	S909	212 0461 006	Rotary encoder (V)		1
CX34	205 0323 036	3P connector base (BLK)		1	S910	212 0476 004	1P push switch (non lock)		1
CX35	205 0321 038	3P connector base (KR-PH RED)		1	T101	233 6383 004	Power trans. (SUB/E2)		1
CX36	205 0406 034	3P connector base (KR-PH)		1	TP501,502	205 0190 036	3P NH connector base		2
CX37	205 0543 036	3P connector base (YEL)		1	W101	203 0689 017	1P SIN-SIN wire		1
CX38	205 0321 038	3P connector base (KR-PH RED)		1	W102	203 0689 033	1P SIN-SIN wire		1
CX51	205 0343 058	5P connector base (KR-PH)		1	W103	203 0689 020	1P SIN-SIN wire		1
CX71	205 0343 074	7P connector base (KR-PH)		1	W104	203 0689 046	1P SIN-SIN wire		1
CX81	205 0343 087	8P connector base (KR-PH)		1	W105	203 0689 004	1P SIN-SIN wire		1
CX91	205 0343 090	9P connector base (KR-PH)		1	W107	203 0689 075	1P SIN-SIN wire		1
CX111,112	205 0375 013	11P connector base (KR-PH)		2	W108	203 0689 088	1P SIN-SIN wire		1
CX151	205 0736 076	15P FFC connector base		1	W111,112	203 0604 050	1P contact ass'y		2
CX152	205 0375 055	15P connector base (KR-PH)		1	W501	203 0689 059	1P SIN-SIN wire		1
CX701,702	205 0606 025	2P wrapping terminal		2	W502	203 0689 062	1P SIN-SIN wire		1
CX704	205 0087 039	3P wrapping terminal		1	W905	001 0026 087	Wire cord		1
CY34	205 0323 036	3P connector base (BLK)		1	W906	203 0525 016	1P SIN cord Ass'y		1
CY37	205 0687 031	3P connector base (YEL)L		1	X601	399 0178 007	Crystal 4.332MHz		1
CY38	205 0321 038	3P connector base (RED)		1	XL901	399 0107 900	Ceramic 4.19 MHz		1
CY51	205 0343 058	5P connector base (KR-PH)		1	001 0036 080	Vinyl wire			1
CY71	205 0343 074	7P connector base (KR-PH)		1	001 0172 096	Vinyl wire			1
CY81	205 0343 087	8P connector base (KR-PH)		1	461 0415 007	Rubber sheet			3
CY91	205 0343 090	9P connector base (KR-PH)		1	513 3681 003	Fuse label (T1.6AL)			1
CY111,112	205 0375 013	11P connector base (KR-PH)		2					
CY152	205 0375 055	15P connector base (KR-PH)		1					
△F101	206 1075 027	Fuse (1.6A)		1					
FF101	202 0040 909	Fuse clip		1					
FH101	202 0040 909	Fuse clip		1					
FL901	393 8054 002	11-BT-187GNK		1					
JK201	204 8639 004	2P pin jack (C-GND)		1					
JK202	204 8635 024	4P pin jack (C-GND)		1					
JK203	204 8638 021	6P pin jack (C-GND)		1					

EXPLODED VIEW

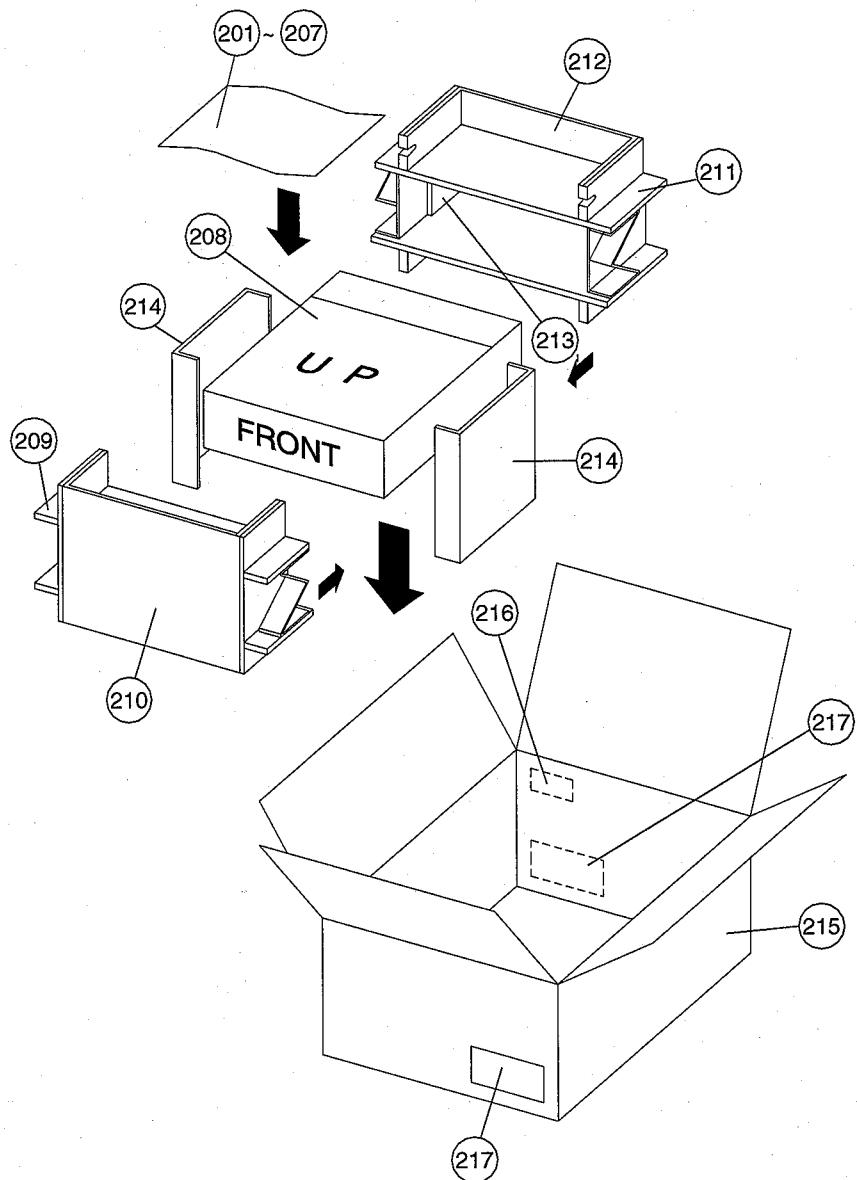
1 2 3 4 5 6 7 8



PARTS LIST OF EXPLODED VIEW

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	1U-3382C	Main P.W.B. unit Ass'y		1	★	009 0209 015	15P FFC cable (1.25)	CN151	1
1-1		Main unit			★	204 6362 098	15P KR-KR ribbon 250	CN152	1
1-2		Input unit			★	203 5110 057	3P EH-EH shield	CN31	1
1-3		U-CON unit			★	203 4872 037	3P KR-KR ribbon 350	CN34	1
1-4		Encoder unit			★	203 4871 038	3P KR-KR ribbon 100	CN37,38	2
1-5		Headphone jack unit			★	203 8342 055	5P KR-KR ribbon 400	CN51	1
1-6		P. SW. unit			★	204 2543 031	7P KR-KR ribbon 100	CN71	1
1-7		LED unit			★	204 2547 024	8P KR-KR ribbon 325	CN81	1
1-10		Resistor unit			★	204 2549 035	9P KR-KR ribbon 100	CN91	1
2	411 1993 332	Main chassis		1	★	415 0309 055	P.V.C tube(L=07)		2
3	104 0324 004	Foot		4	★	445 0048 016	Cord holder (L50)		1
A	461 1066 002	Felt		4	★	445 8027 000	Cord clammer		2
4	105 1385 029	Back panel		1	★	445 8004 007	Wire clammer		10
5	412 3548 005	P.W.B catcher		4	★	412 4845 008	PWB bracket(C)		1
6	417 0620 112	Power radiator		1	★	415 0382 030	UL tube (4.2) L=30		2
7	272 0152 003	2SB1383(P/Y)	TR519,520	2					
8	274 0190 003	2SD2083(P/Y)	TR517,518	2					
9	273 0450 009	2SC4495(O/Y)	TR515,516	2					
10	415 0234 007	Insulating sheet		4					
11	279 0034 054	PTH9M04BC222TS2F333	TH701	1					
12	412 3225 205	P.W.B bracket(A)		2					
B	412 4622 001	PCB support(A)		1					
C	216 0114 009	AM FM tuner(E2)		1					
D	412 4839 001	Earth plate(H/P)		1					
△	13	233 6405 005	Power trans E2	1					
14	412 4828 106	Trans bracket		1					
F	461 1067 001	FL spacer		1					
15	412 4844 009	PWB bracket(B)		1					
16	205 1116 006	Terminal Ass'y		1					
△	17	206 2063 009	AC cord with plug	1					
18	445 0056 008	Cord bush		1					
19	146 2252 217	Inner panel		1					
20	119 0113 000	Knob esc.		1					
21	103 1751 000	Holder		1					
22	412 4911 000	Knob bracket		1					
23	113 1919 001	Power knob Ass'y		1					
24	113 1912 037	Knob 5 REN Ass'y		1					
G	113 1912 040	Knob 5 REN Ass'y		1					
25	143 1131 000	Remocon filter		1					
26	144 2777 217	Front panel		1					
27	131 0156 106	DENON badge		1					
28	143 1129 012	Window		1					
29	112 0886 019	Knob(M) Ass'y		1					
30	112 0884 105	Knob(F) Ass'y		1					
31	102 0653 009	Top cover		1					
32	477 0096 007	Push rivet		4					
33	412 4845 008	PWB bracket (C)		1					
E	461 1110 000	FL spacer(D-SIDE)		1					
35	414 0947 100	Shield plate		1					
121	475 2003 005	3 spring washer		6					
122	475 1003 006	3 washer		4					
123	475 1106 013	Washer		2					
★	204 6351 054	11P KR-KR ribbon 400	CN111	1					
★	204 6350 039	11P KR-KR ribbon 100	CN112	1					

PACKING VIEW

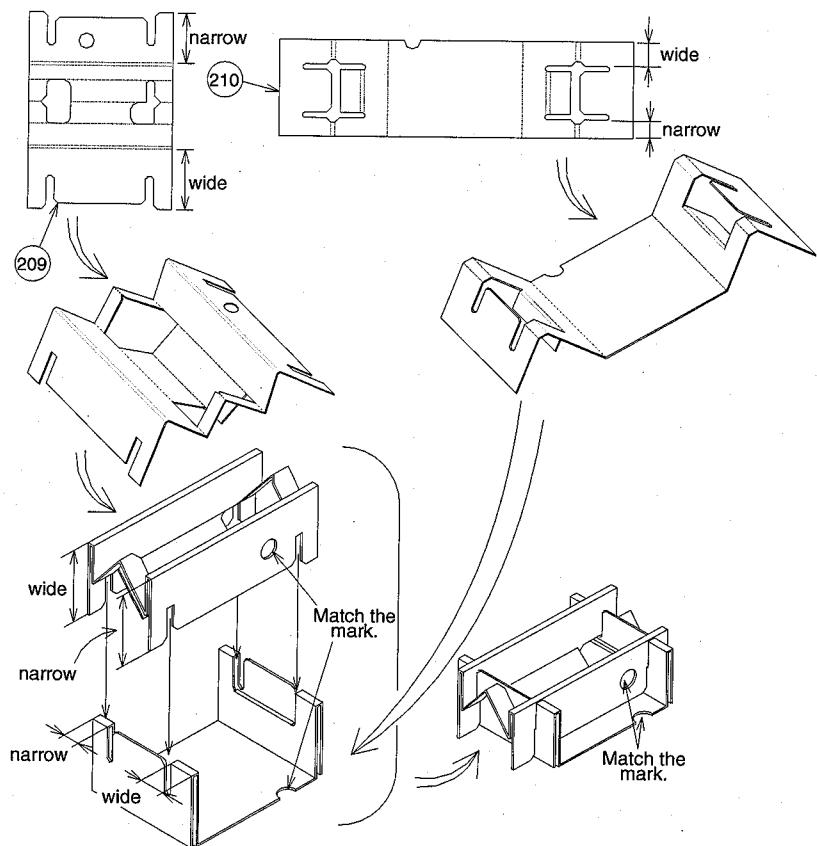


PARTS LIST OF PACKING & ACCESSORIES

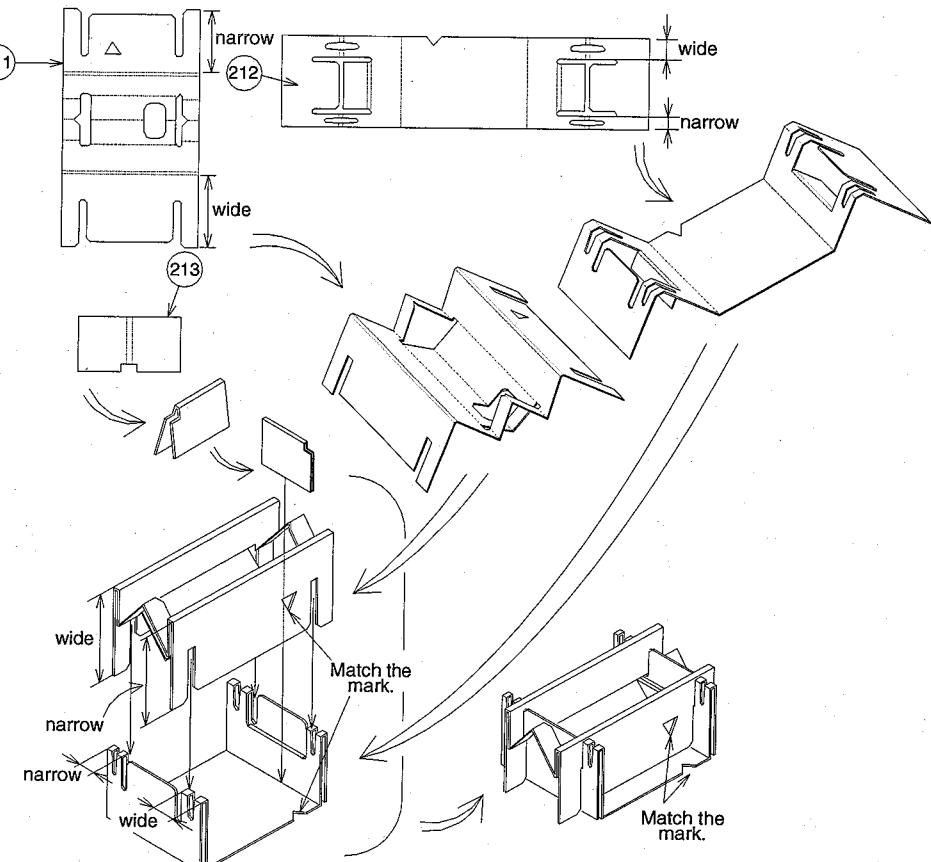
Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
201	505 0038 030	Poly cover		1	210	502 0965 007	Cushion(F-B)		1
202	511 3850 003	Inst manual(E2)		1	211	502 0966 006	Cushion(R-A)		1
203	515 0867 101	S.S.list(EX)		1	212	502 0967 005	Cushion(R-B)		1
204	394 0012 003	Battery (UM-4) Ass		1	213	502 0980 008	Cushion pad		1
205	399 0766 008	Remocon (RC-906)		1	214	502 0968 101	Spacer pad		2
206	231 0922 009	Loop antenna		1	215	501 2157 001	Carton case		1
207	395 0026 005	FM ant. wire		1	216	517 1417 051	E2 POS label		1
208	505 0335 005	Cabinet cover		1	217	—	Control Card		1
209	502 0964 008	Cushion(F-A)		1					

FORMING CUSHIONS

Cushion (F) Ass'y



Cushion (R) Ass'y



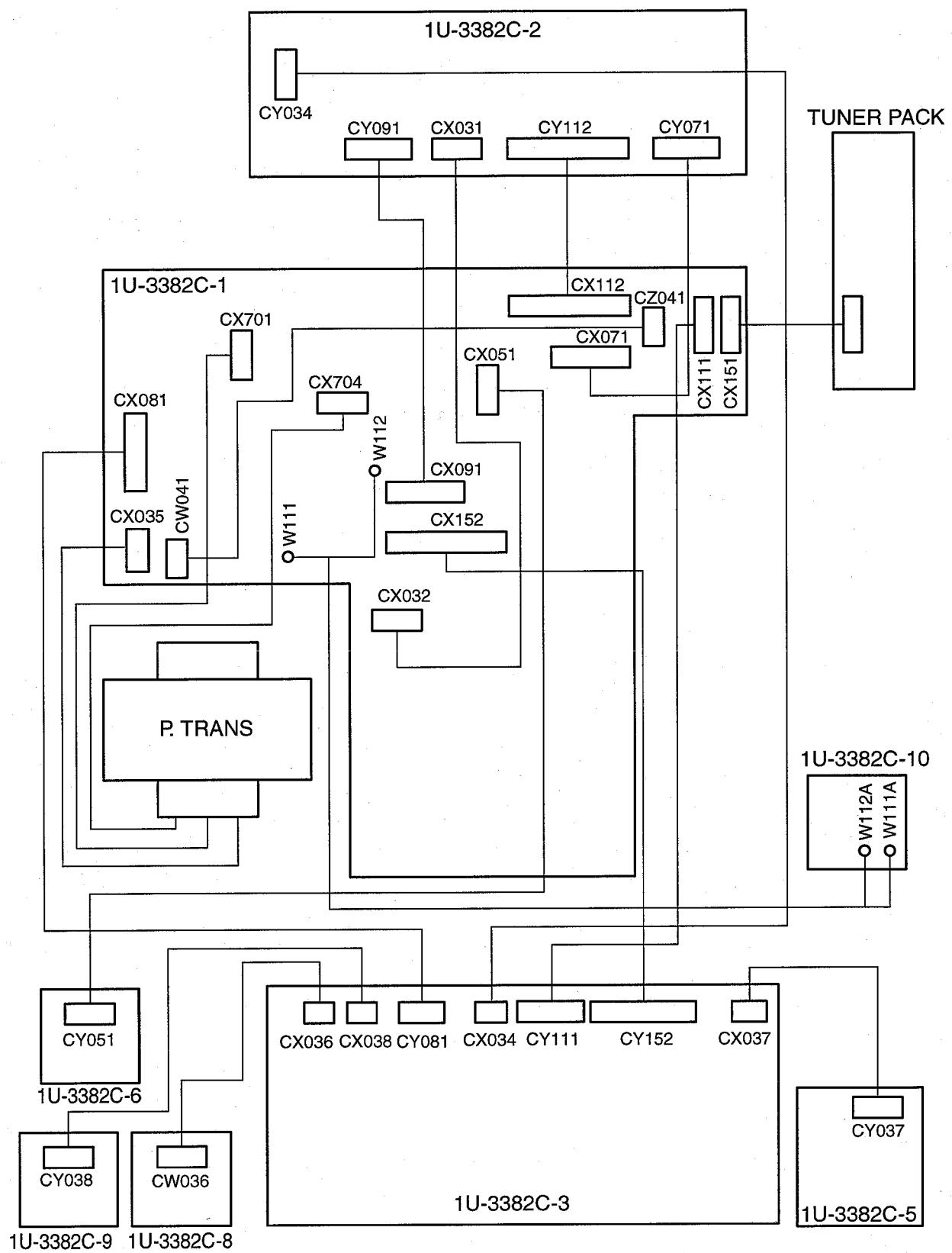
WIRING DIAGRAM

1

2

3

4



SCHEMATIC DIAGRAMS (1/2)

1

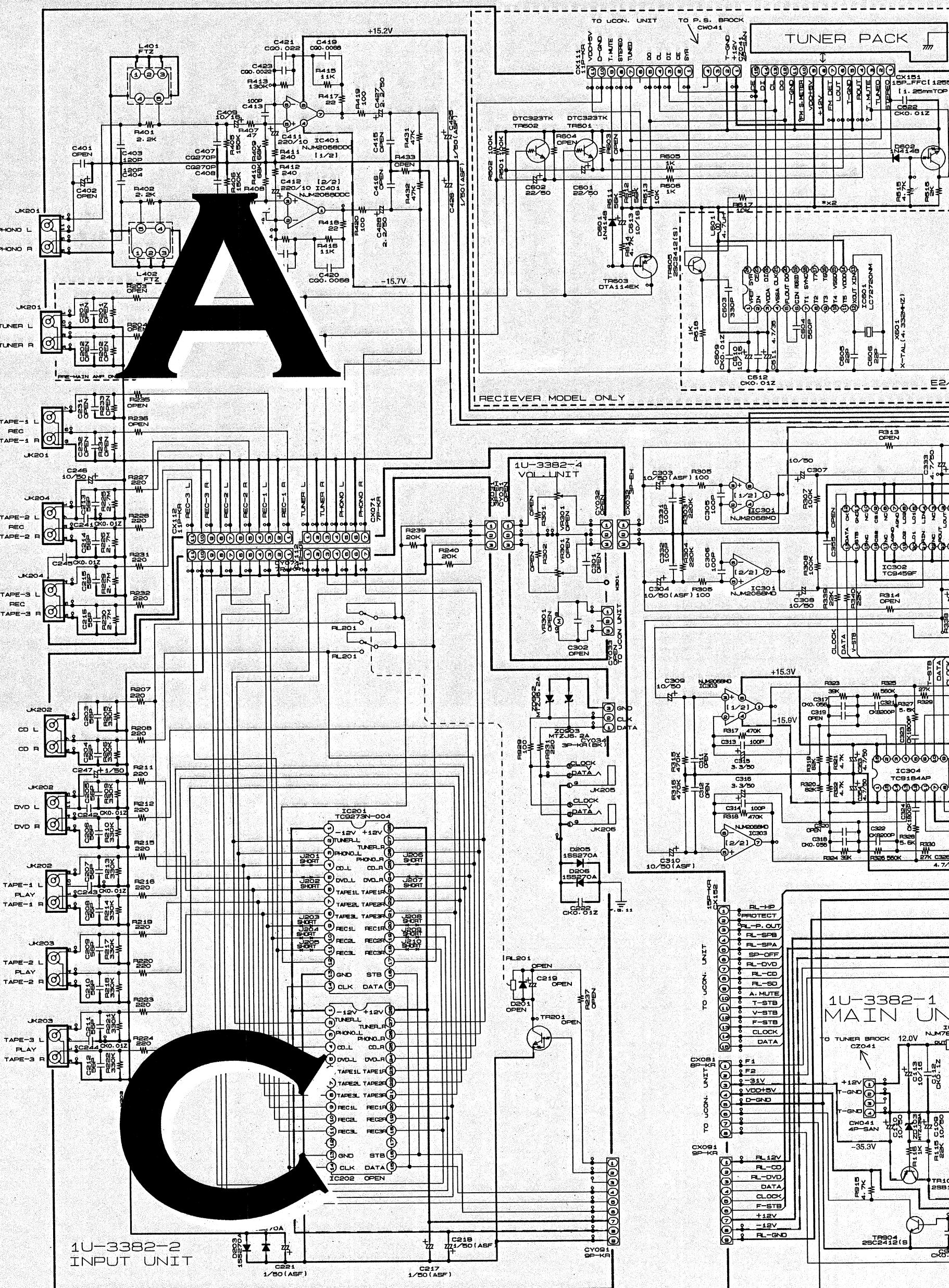
2

3

4

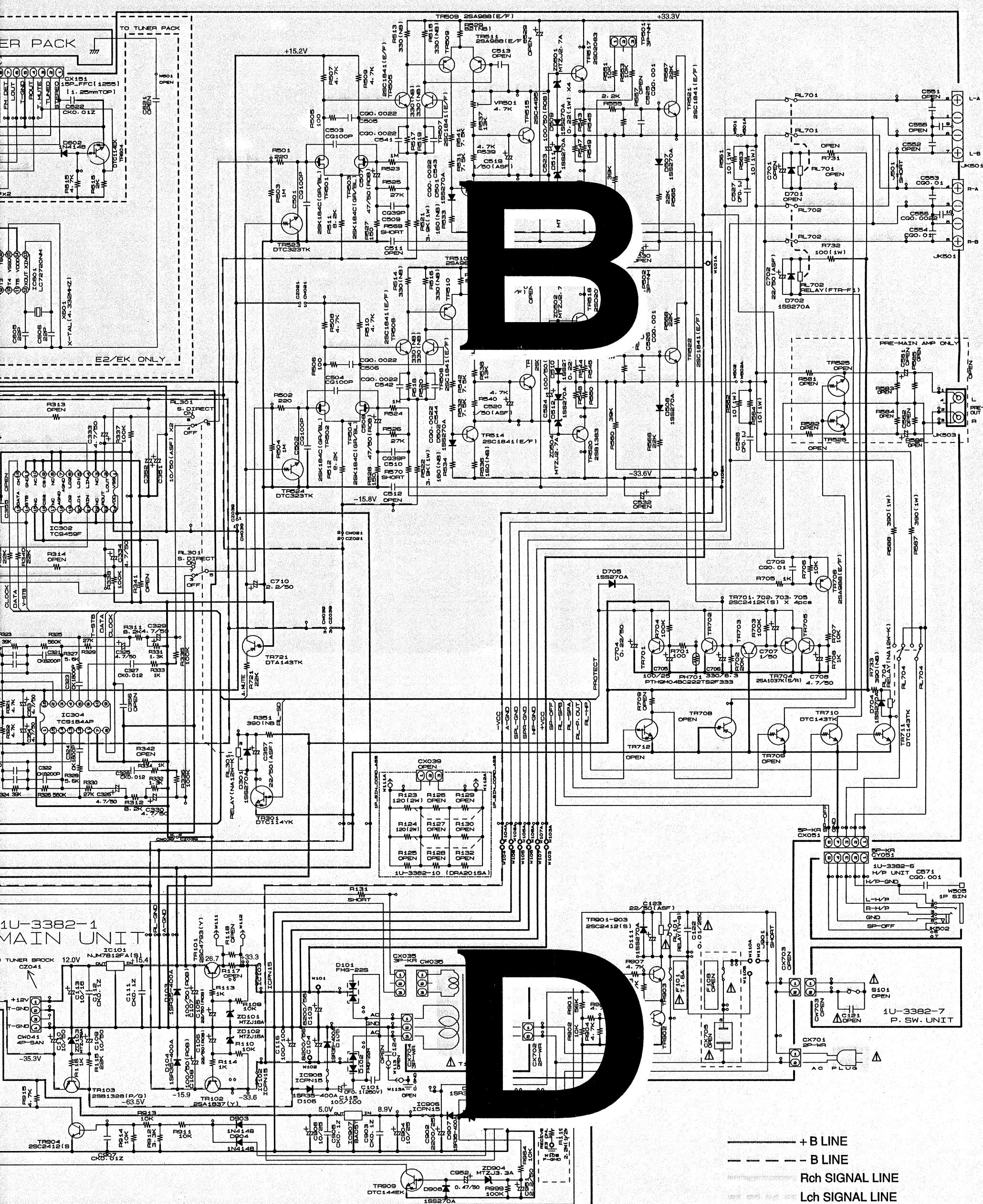
5

6



NOTICE

NOTICE
ALL RESISTANCE VALUES IN C
ALL CAPACITANCE VALUES IN
EACH VOLTAGE AND CURRENT
CONDITION.
CIRCUIT AND PARTS ARE SUB
NOTICE.



WARNING:

WARNING: Parts marked with this symbol have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

CAUTION: Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

WARNING:

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAMS (1/2)

**SCHEMATIC DIAGRAM
1U-3382C-1 MAIN UNIT**

1U-3382C-1 MAIN UNIT
1U-3382C-2 INPUT UNIT

1U-3382C-2 INFO 3
1U-3382C-6 H/P UNIT

SCHEMATIC DIAGRAMS (1/2)

1

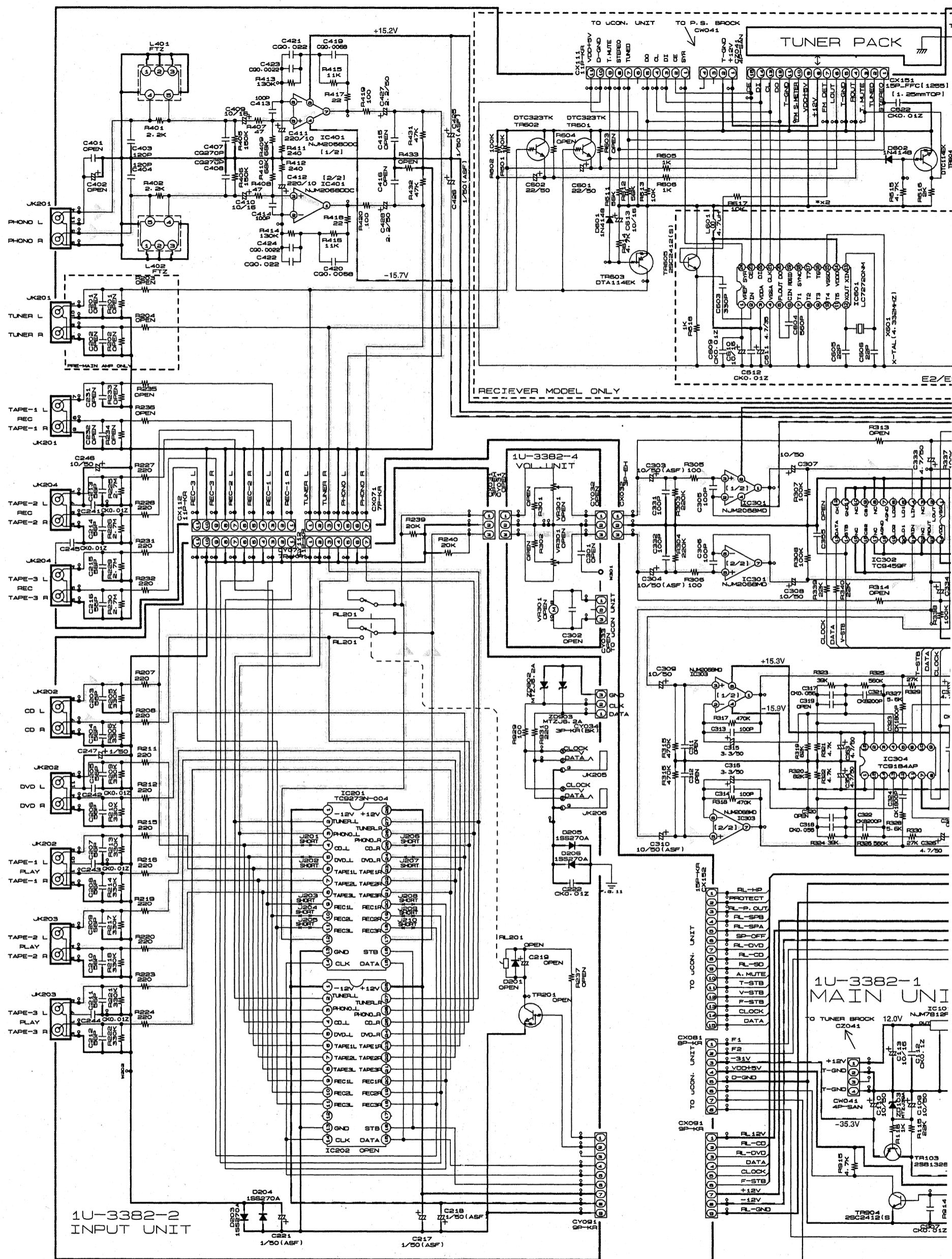
2

3

4

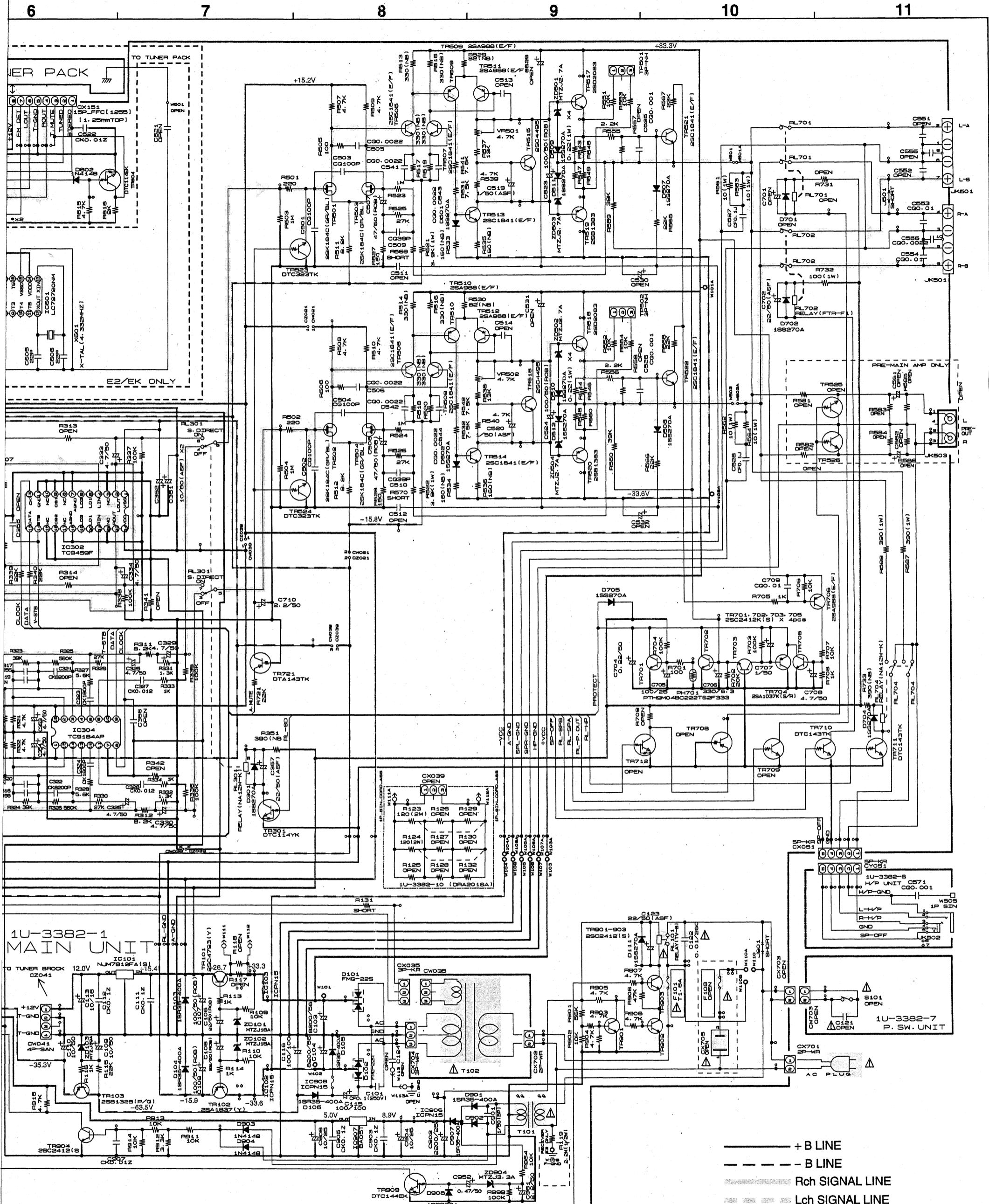
5

6



NOTICE

ALL RESISTANCE VALUES IN OHM
ALL CAPACITANCE VALUES IN MIC
EACH VOLTAGE AND CURRENT A
CONDITION.
CIRCUIT AND PARTS ARE SUBJE
NOTICE.



WARNING:

Parts marked with this symbol have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 millamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

WARNING:

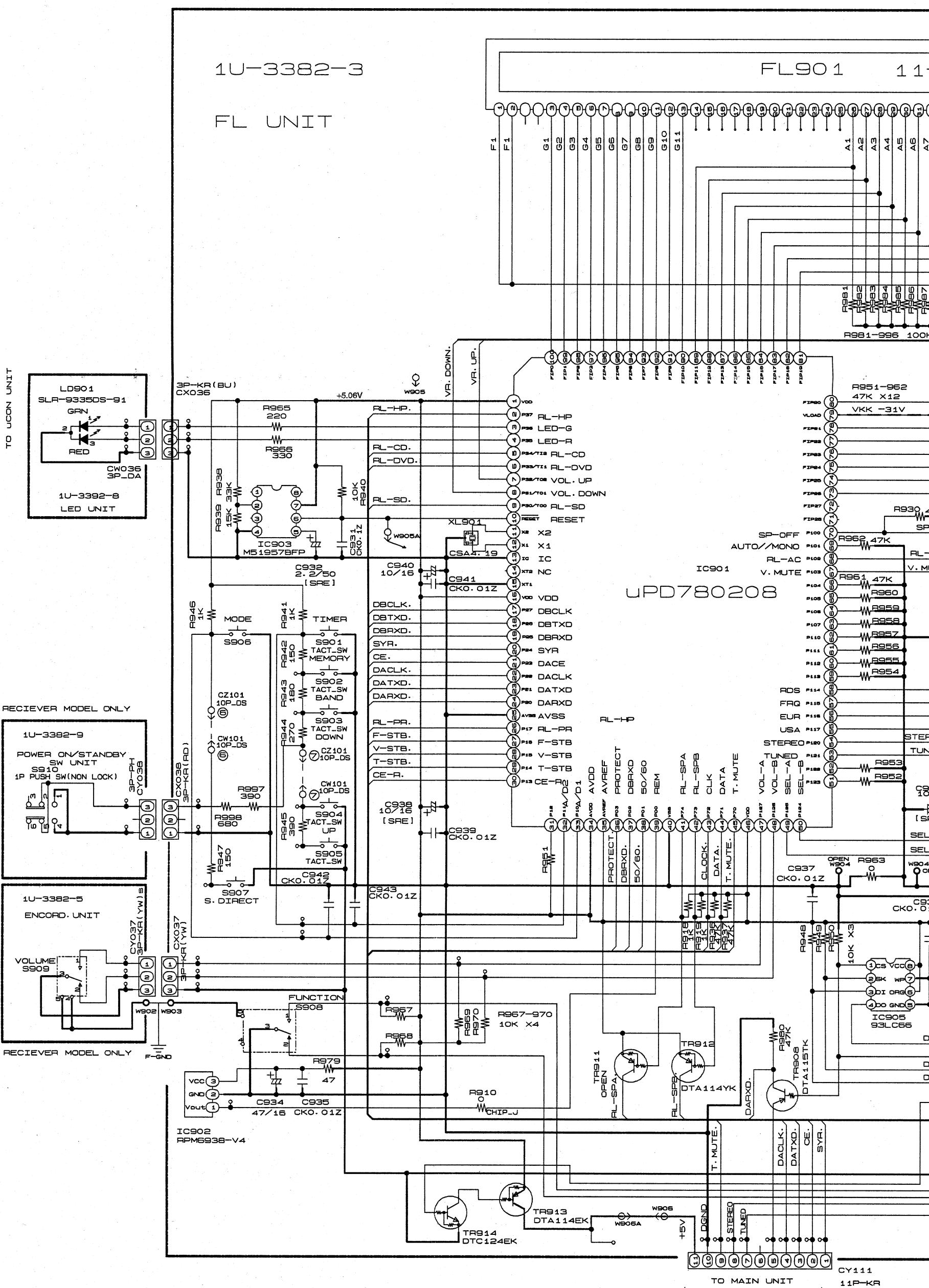
DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAMS (1/2)

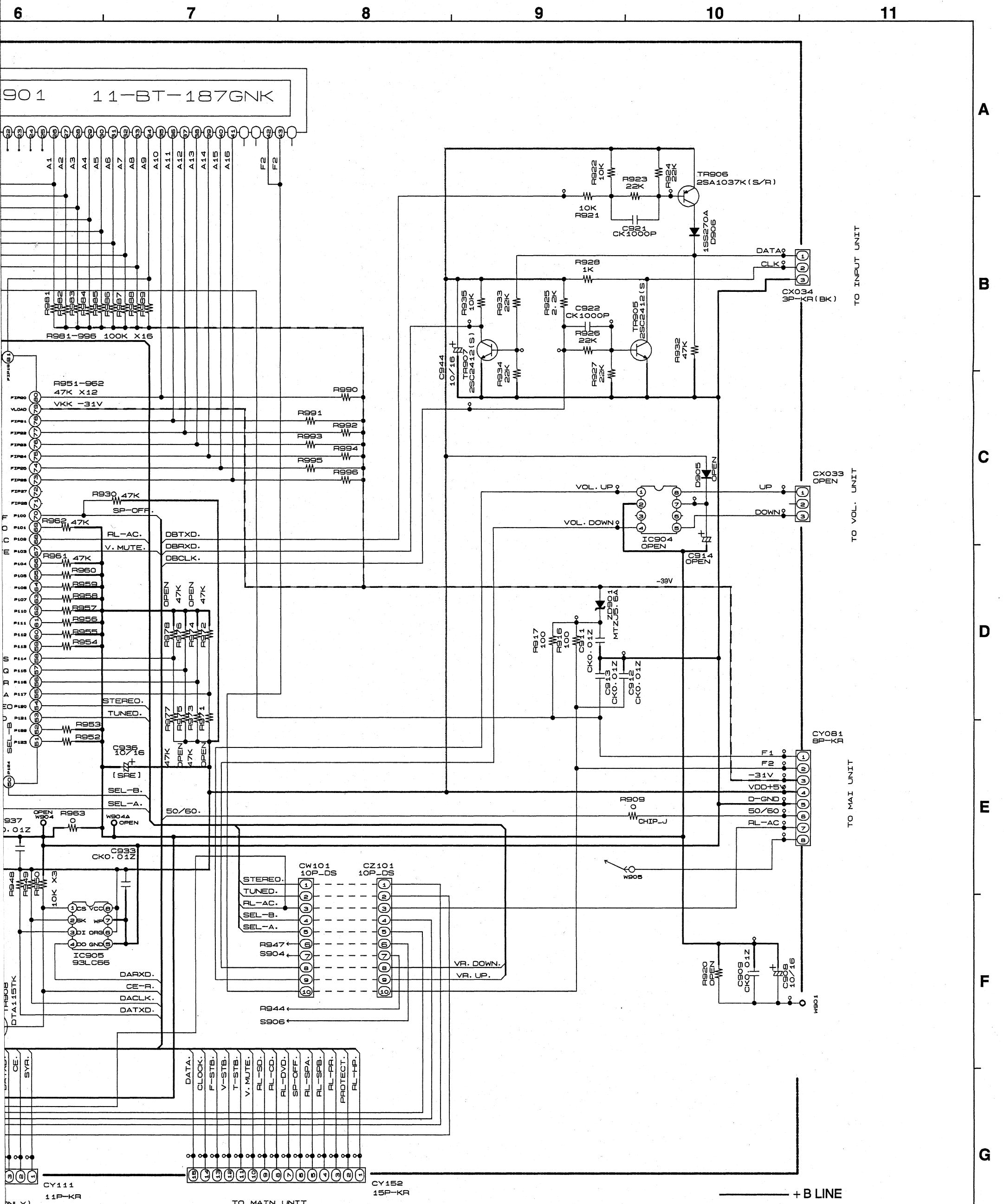
1U-3382C-1 MAIN UNIT
1U-3382C-2 INPUT UNIT
1U-3382C-6 H/P UNIT

SCHEMATIC DIAGRAMS (2/2)

1 2 3 4 5 6



11P-KR CY111
TO MAIN UNIT
(RECEIVER MODEL ONLY)

**WARNING:**

Parts marked with this symbol have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 millamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

WARNING:

DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAMS (2/2)

1U-3382C-3 FL UNIT
1U-3382C-5 ENCORD UNIT
1U-3382C-8 LED UNIT

STANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
CITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
LTAGE AND CURRENT ARE MEASUERD AT MO SIGNAL INPUT
IN.
AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR

SCHEMATIC DIAGRAMS (2/2)

1

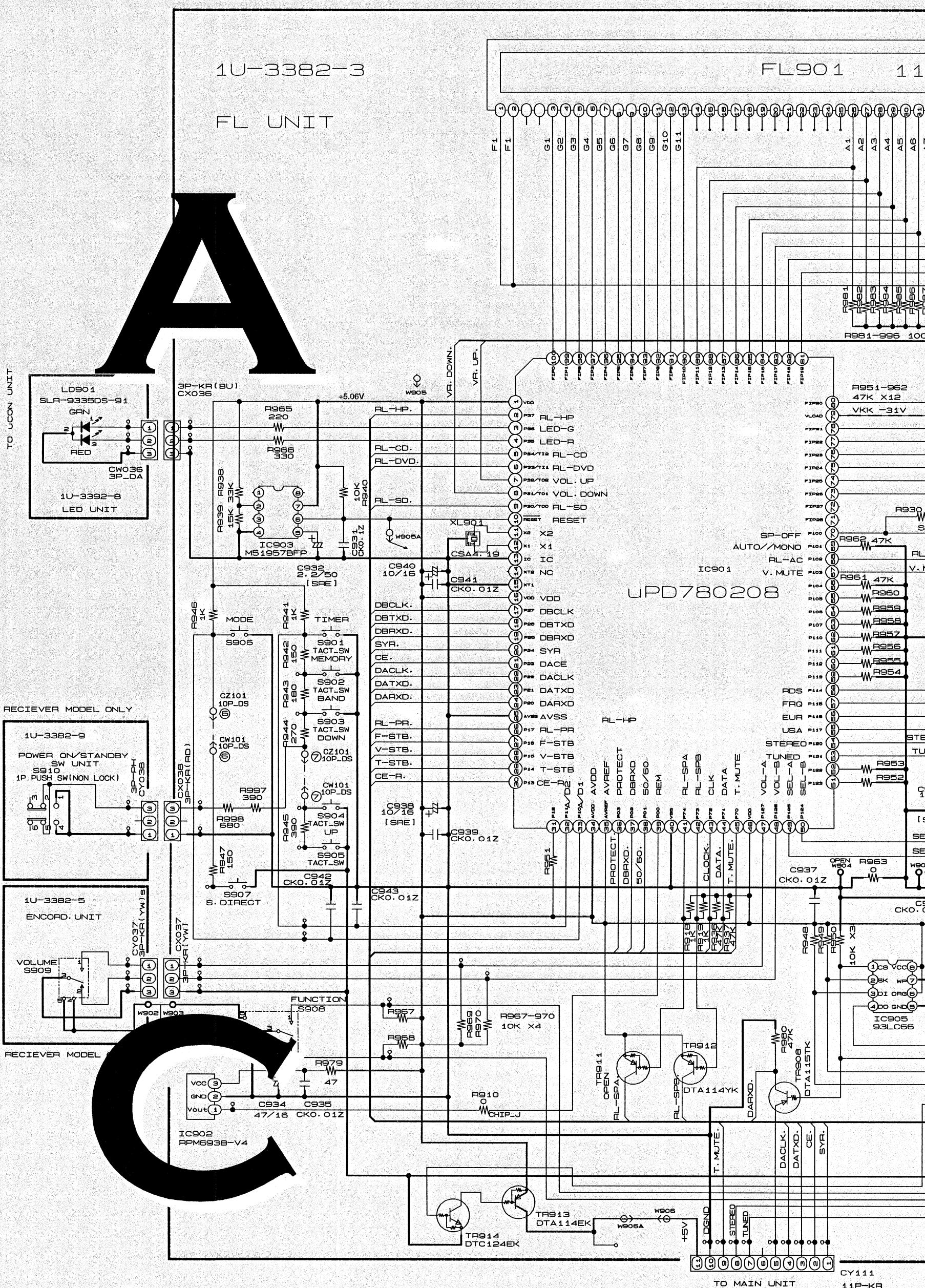
2

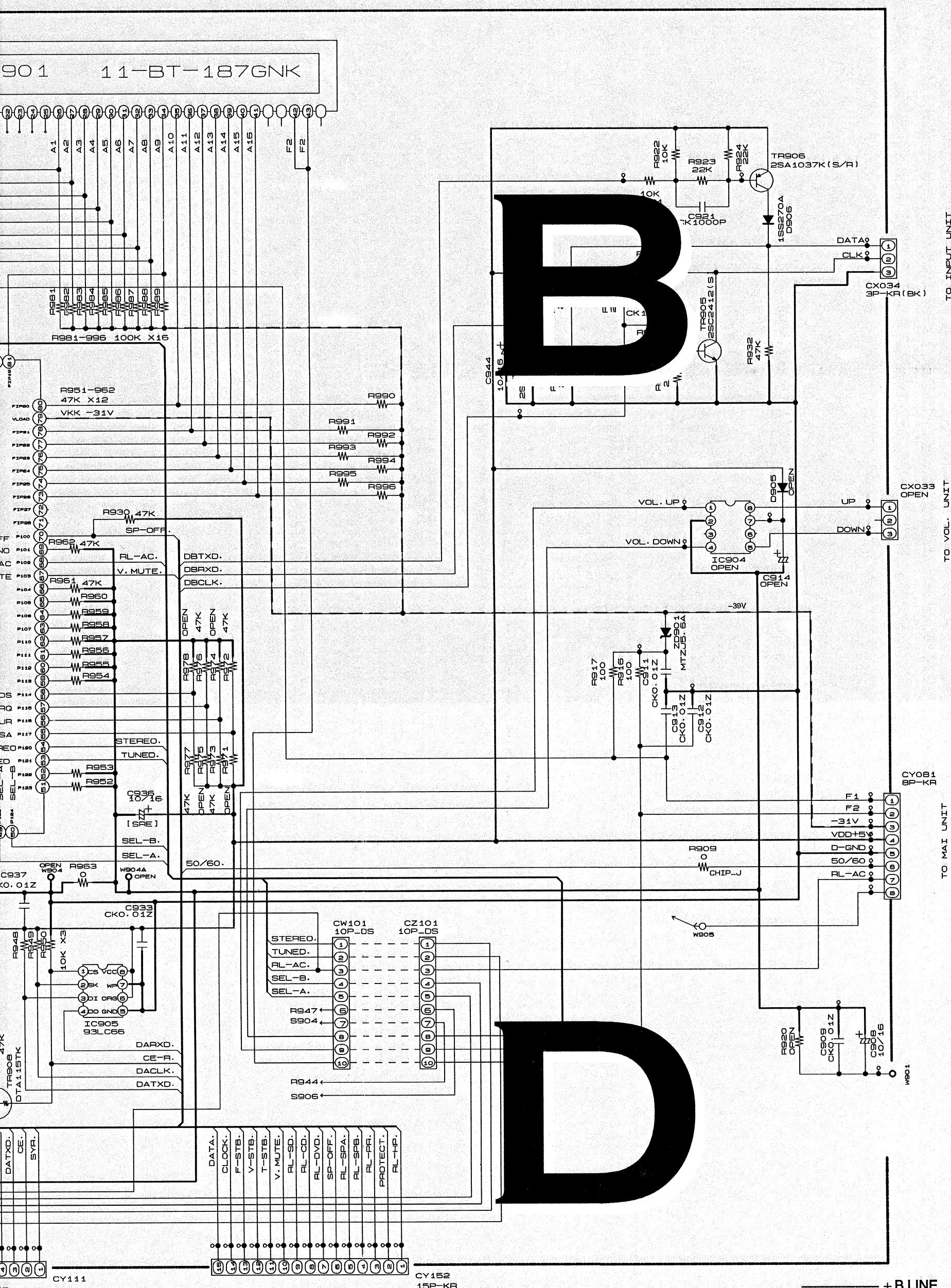
3

4

5

6





WARNING:

WARNING: Parts marked with this symbol  have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

CAUTION: Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 millamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

WARNING:

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

SCHMATIC DIAGRAMS (2/2)

SCHEMATIC DIAG
1U-3382C-3 FL UNIT
1U-3382C-5 ENCORD UNIT
1U-3382C-8 LED UNIT